### 1500W SURFACE MOUNT TRANSIENT VOLTAGE

Reverse Voltage: 5.0-440 Volts Peak pulse power: 1500 Watts

#### FEATURES

- ◆1500W Peak Pulse Power Dissipation
- ◆5.0V 440V Standoff Voltages
- ♦Glass Passivated Die Construction
- ◆Uni- and Bi-Directional Versions Available
- ◆Excellent Clamping Capability
- ◆Fast Response Time
- ◆Plastic Case Material has UL Flammability

Classification Rating 94V-0

#### Mechanical Data

- ◆Case: DO-214AB, Transfer Molded Epoxy
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆ Also Available in Lead Free Plating (Matte Tin Finish).

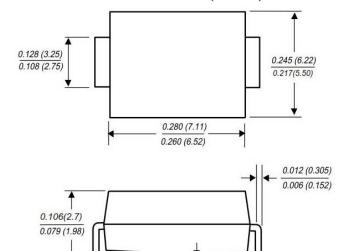
Please see Ordering Information, Note 5, on Page 4

◆Polarity Indicator: Cathode Band (Note: Bi-directional devices have no polarity indicator.)

◆Marking: Part NO.

♦ Weight: 0.22 grams (approx.)

### **DO-214AB (SMC)**



**Dimensions in inches and (millimeters)** 

0.331(8.40)

0.291(7.40)

L 0.008 (0.203)

MAX.

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

0.060 (1.52)

0.030 (0.75)

#### Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Peak Pulse Power Dissipation (Non repetitive current pulse derated above $T_A = 25^{\circ}C$ ) (Note 1)	$P_{PK}$	1500	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Notes 1, 2, & 3)	$I_{FSM}$	200	A
Steady State Power Dissipation @ $T_L = 75^{\circ}C$	PM <sub>(AV)</sub>	5.0	W
Instantaneous Forward Voltage @ $I_{PP} = 100A$ (Notes 1, 2, & 3)	$V_{\rm F}$	3.5	V
Operating Temperature Range	$T_{\rm j}$	-55 to + 150	$^{\circ}$
Storage Temperature Range	$T_{STG}$	-55 to + 175	$^{\circ}$

Notes: 1. Valid provided that terminals are kept at ambient temperature

- 2. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum
- 3. Unidirectional units only

### 1500W SURFACE MOUNT TRANSIENT VOLTAGE

Reverse Voltage: 5.0-440 Volts Peak pulse power: 1500 Watts

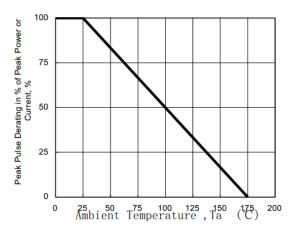


Fig. 1 - Pulse Derating Curve

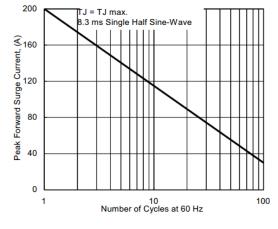


Fig. 2 - Maximum Non-Repetitive
Surge Current

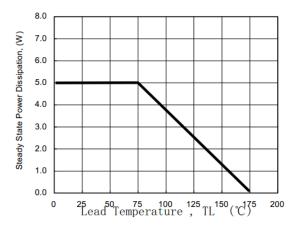


Fig. 3 - Steady State Power Derating Curve

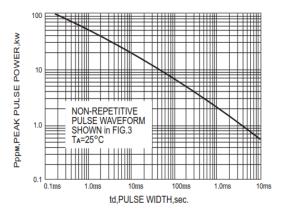


Fig. 4 - Peak Pulse Power Rating Curve

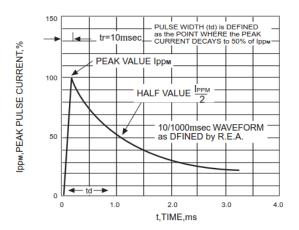


Fig. 5 - Pulse Waveform



### 1500W SURFACE MOUNT TRANSIENT VOLTAGE

Reverse Voltage: 5.0-440 Volts Peak pulse power: 1500 Watts

Part Number (Uni)		ı			Darramaa				ı	Marrimum	
Part Number   Number (Uni)   Numb			_		Reverse	Break	down		Maximum	Maximum	Maximum
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Part	Part	ı		ı	Volt	age	Test	Clamping	l	Reverse
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Number		ı	_	ı			1		l	Leakage
No.   No.			Co	ode		@	$I_{T}$	$I_{T}$ (mA)		l	
SMCJ5.0A   SMCJ5.0CA   GDE   BDE   5					1						
SMCJ6.0A         SMCJ6.0CA         GDG         BDG         6         6.67         7.37         10         10.3         145.7         800           SMCJ6.5A         SMCJ6.5CA         GDK         BDK         6.5         7.22         7.98         10         11.2         134         500           SMCJ7.0A         SMCJ7.5CA         GDM         BDM         7         7.78         8.6         10         12         125         200           SMCJ8.0A         SMCJ9.0CA         GDP         BDP         7.5         8.33         9.21         1         12.9         116.3         100           SMCJ8.0A         SMCJ9.0CA         GDR         BDR         8         8.89         9.83         1         13.6         110.3         50           SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ11CA         GDZ         BDZ         10         11.1         12.1         11.7         88.3         5           SMCJ11A         SMCJ11CA         GDZ         BDZ         BDZ         11         12.2         13.5         1         18.2 <t< td=""><td>G) (G) (G)</td><td>03.4015.004</td><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td><td></td><td></td></t<>	G) (G) (G)	03.4015.004						10			
SMCJ6.5A         SMCJ6.5CA         GDK         BDK         6.5         7.22         7.98         10         11.2         134         500           SMCJ7.0A         SMCJ7.6CA         GDM         BDM         7         7.78         8.6         10         12         125         200           SMCJ7.5A         SMCJ7.5CA         GDP         BDP         7.5         8.33         9.21         1         12.9         116.3         100           SMCJ8.5A         SMCJ8.5CA         GDR         BDR         8         8.89         9.83         1         13.6         110.3         50           SMCJ10.A         SMCJ90.CA         GDB         BDT         8.5         9.44         10.4         1         14.4         104.2         20           SMCJ10.A         SMCJ10CA         GDB         BDT         10         11.1         12.3         1         17.4         10         11.1         12.3         1         18.2         82.5         5           SMCJ11A         SMCJ11CA         GDZ         BDZ         11         11.2         13.3         14.7         1         19.9         75.4         5           SMCJ12A         SMCJ12CA         GEB <t< td=""><td></td><td></td><td></td><td></td><td>_</td><td></td><td>· .</td><td></td><td></td><td></td><td></td></t<>					_		· .				
SMCJ7.0A         SMCJ7.0A         GDM         BDM         7         7.78         8.6         10         12         125         200           SMCJ7.5A         SMCJ8.0A         SMCJ8.0A         GDP         BDR         8         8.83         9.21         1         12.9         116.3         100           SMCJ8.0A         SMCJ8.0A         GDR         BDR         8         8.89         9.83         1         112.9         116.3         100           SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         14.4         104.2         20           SMCJ10A         SMCJ10CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ10CA         GDV         BDV         10         11.1         12.2         13.5         1         17         88.3         5           SMCJ11A         SMCJ11CA         GDE         BDZ         11         12.2         13.5         1         18.2         25.5         5           SMCJ13A         SMCJ13CA         GEB         BEE         12         13.3         14.7         1											
SMCJ7.5A         SMCJ8.0A         GDP         BDP         7.5         8.33         9.21         1         12.9         116.3         100           SMCJ8.0A         SMCJ8.0CA         GDR         BDR         8         8.89         9.83         1         13.6         110.3         50           SMCJ9.0A         SMCJ9.0CA         GDV         BDT         8.5         9.44         10.4         1         14.4         104.2         20           SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ10CA         GDX         BDX         10         11.1         12.3         1         17         88.3         5           SMCJ11A         SMCJ1CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ11A         SMCJ13CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ14A         SMCJ14CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4			_								
SMCJ8.0A         SMCJ8.0CA         GDR         BDR         8         8.89         9.83         1         13.6         110.3         50           SMCJ8.5A         SMCJ8.5CA         GDT         BDT         8.5         9.44         10.4         1         14.4         104.2         20           SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ10CA         GDX         BDX         10         11.1         12.3         1         17         88.3         5           SMCJ11A         SMCJ1CA         GDZ         BDZ         11         12.2         13.5         1         18.2         82.5         5           SMCJ12A         SMCJ1CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ1CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ15CA         GEB         BEK         14         15.6         17.2         1         23.2         64.7			_								
SMCJ8.5CA         GDT         BDT         8.5         9.44         10.4         1         14.4         104.2         20           SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ10CA         GDX         BDX         10         11.1         12.3         1         17.4         88.3         5           SMCJ11A         SMCJ11CA         GDZ         BDZ         11         12.2         13.5         1         18.2         82.5         5           SMCJ13A         SMCJ12CA         GEE         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ13CA         GEG         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         21.5         69.8         5           SMCJ15A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5			_								
SMCJ9.0A         SMCJ9.0CA         GDV         BDV         9         10         11.1         1         15.4         97.4         10           SMCJ10A         SMCJ10CA         GDX         BDX         10         11.1         12.3         1         17         88.3         5           SMCJ11A         SMCJ11CA         GDZ         BDZ         11         11.2         13.5         1         18.2         82.5         5           SMCJ13A         SMCJ12CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ13CA         GEG         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ15A         SMCJ16CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ18A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5 </td <td></td>											
SMCJ10A         SMCJ10CA         GDX         BDX         10         11.1         12.3         1         17         88.3         5           SMCJ11A         SMCJ1CA         GDZ         BDZ         11         12.2         13.5         1         18.2         82.5         5           SMCJ12A         SMCJ13CA         GEB         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ13CA         GEB         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ16CA         GEN         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ16A         SMCJ16CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ17A         SMCJ17CA         GER         BET         18         20.9         22.1         1         29.2         51.4							_				
SMCJ11A         SMCJ11CA         GDZ         BDZ         11         12.2         13.5         1         18.2         82.5         5           SMCJ12A         SMCJ12CA         GEE         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ13CA         GEG         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ15CA         GEM         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ15A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5		SMCJ9.0CA	_		9			1			
SMCJ12A         SMCJ13CA         GEE         BEE         12         13.3         14.7         1         19.9         75.4         5           SMCJ13A         SMCJ13CA         GEG         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ15CA         GEM         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ16A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ16A         SMCJ17CA         GER         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ18A         SMCJ18CA         GER         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ18A         SMCJ20CA         GER         BET         18         20         22.1         1         29.2         51.4         5 <td>SMCJ10A</td> <td></td> <td>GDX</td> <td>BDX</td> <td>10</td> <td></td> <td>12.3</td> <td>1</td> <td></td> <td></td> <td></td>	SMCJ10A		GDX	BDX	10		12.3	1			
SMCJ13A         SMCJ13CA         GEG         BEG         13         14.4         15.9         1         21.5         69.8         5           SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ15CA         GEM         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ16A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ18A         SMCJ20CA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ22A         SMCJ2CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5<	SMCJ11A	SMCJ11CA	GDZ	BDZ	11	12.2	13.5	1	18.2		5
SMCJ14A         SMCJ14CA         GEK         BEK         14         15.6         17.2         1         23.2         64.7         5           SMCJ15A         SMCJ15CA         GEM         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ16A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ20A         SMCJ20CA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ20A         SMCJ2CA         GEZ         BEZ         22         24.4         26.9         1         35.5         42.3         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5<	SMCJ12A	SMCJ12CA	GEE	BEE	12	13.3	14.7	1	19.9	75.4	_
SMCJ15A         SMCJ15CA         GEM         BEM         15         16.7         18.5         1         24.4         61.5         5           SMCJ16A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ2AA         SMCJ2CA         GEX         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ2AC         SMCJ2CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ2ACA         SMCJ2CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ2CA         GFG         BFE         26         28.9         31.1         34.4         1         45.4         33.1	SMCJ13A	SMCJ13CA	GEG	BEG	13	14.4	15.9	1	21.5	69.8	5
SMCJ16A         SMCJ16CA         GEP         BEP         16         17.8         19.7         1         26         57.7         5           SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ20A         SMCJ20CA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ2A         SMCJ2CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ24A         SMCJ2CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ26A         SMCJ3CA         GFE         BFE         26         28.9         31.9         1         42.1         33.1         5 <td>SMCJ14A</td> <td>SMCJ14CA</td> <td>GEK</td> <td>BEK</td> <td>14</td> <td>15.6</td> <td>17.2</td> <td>1</td> <td>23.2</td> <td>64.7</td> <td>5</td>	SMCJ14A	SMCJ14CA	GEK	BEK	14	15.6	17.2	1	23.2	64.7	5
SMCJ17A         SMCJ17CA         GER         BER         17         18.9         20.9         1         27.6         54.4         5           SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ2OA         SMCJ2OCA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ2A         SMCJ2CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ2A         SMCJ2CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ2A         SMCJ2CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ2A         SMCJ2CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ3CA         GFE         BFE         26         28.9         31.9         1         42.1         33.1         5	SMCJ15A	SMCJ15CA	GEM	BEM	15	16.7	18.5	1	24.4	61.5	5
SMCJ18A         SMCJ18CA         GET         BET         18         20         22.1         1         29.2         51.4         5           SMCJ20A         SMCJ20CA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ22A         SMCJ2CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ24A         SMCJ24CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ28A         SMCJ26CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ28A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         41         5 <td>SMCJ16A</td> <td>SMCJ16CA</td> <td>GEP</td> <td>BEP</td> <td>16</td> <td>17.8</td> <td>19.7</td> <td>1</td> <td>26</td> <td>57.7</td> <td>5</td>	SMCJ16A	SMCJ16CA	GEP	BEP	16	17.8	19.7	1	26	57.7	5
SMCJ20A         SMCJ20CA         GEV         BEV         20         22.2         24.5         1         32.4         46.3         5           SMCJ22A         SMCJ22CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ24A         SMCJ24CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ28A         SMCJ28CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ30A         SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5	SMCJ17A	SMCJ17CA	GER	BER	17	18.9	20.9	1	27.6	54.4	5
SMCJ22A         SMCJ22CA         GEX         BEX         22         24.4         26.9         1         35.5         42.3         5           SMCJ24A         SMCJ24CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ28A         SMCJ28CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ30A         SMCJ33CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ33A         SMCJ36CA         GFP         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.2         1         58.1         25.9         5 <t< td=""><td>SMCJ18A</td><td>SMCJ18CA</td><td>GET</td><td>BET</td><td>18</td><td>20</td><td>22.1</td><td>1</td><td>29.2</td><td>51.4</td><td>5</td></t<>	SMCJ18A	SMCJ18CA	GET	BET	18	20	22.1	1	29.2	51.4	5
SMCJ24A         SMCJ24CA         GEZ         BEZ         24         26.7         29.5         1         38.9         38.6         5           SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ28A         SMCJ28CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A	SMCJ20A	SMCJ20CA	GEV	BEV	20	22.2	24.5	1	32.4	46.3	5
SMCJ26A         SMCJ26CA         GFE         BFE         26         28.9         31.9         1         42.1         35.7         5           SMCJ28A         SMCJ28CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ33A         SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ40A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5 </td <td>SMCJ22A</td> <td>SMCJ22CA</td> <td>GEX</td> <td>BEX</td> <td>22</td> <td>24.4</td> <td>26.9</td> <td>1</td> <td>35.5</td> <td>42.3</td> <td>5</td>	SMCJ22A	SMCJ22CA	GEX	BEX	22	24.4	26.9	1	35.5	42.3	5
SMCJ28A         SMCJ28CA         GFG         BFG         28         31.1         34.4         1         45.4         33.1         5           SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ33A         SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5 </td <td>SMCJ24A</td> <td>SMCJ24CA</td> <td>GEZ</td> <td>BEZ</td> <td>24</td> <td>26.7</td> <td>29.5</td> <td>1</td> <td>38.9</td> <td>38.6</td> <td>5</td>	SMCJ24A	SMCJ24CA	GEZ	BEZ	24	26.7	29.5	1	38.9	38.6	5
SMCJ30A         SMCJ30CA         GFK         BFK         30         33.3         36.8         1         48.4         31         5           SMCJ33A         SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5 </td <td>SMCJ26A</td> <td>SMCJ26CA</td> <td>GFE</td> <td>BFE</td> <td>26</td> <td>28.9</td> <td>31.9</td> <td>1</td> <td>42.1</td> <td>35.7</td> <td>5</td>	SMCJ26A	SMCJ26CA	GFE	BFE	26	28.9	31.9	1	42.1	35.7	5
SMCJ33A         SMCJ33CA         GFM         BFM         33         36.7         40.6         1         53.3         28.2         5           SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5 </td <td>SMCJ28A</td> <td>SMCJ28CA</td> <td>GFG</td> <td>BFG</td> <td>28</td> <td>31.1</td> <td>34.4</td> <td>1</td> <td>45.4</td> <td>33.1</td> <td>5</td>	SMCJ28A	SMCJ28CA	GFG	BFG	28	31.1	34.4	1	45.4	33.1	5
SMCJ36A         SMCJ36CA         GFP         BFP         36         40         44.2         1         58.1         25.9         5           SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5 </td <td>SMCJ30A</td> <td>SMCJ30CA</td> <td>GFK</td> <td>BFK</td> <td>30</td> <td>33.3</td> <td>36.8</td> <td>1</td> <td>48.4</td> <td>31</td> <td>5</td>	SMCJ30A	SMCJ30CA	GFK	BFK	30	33.3	36.8	1	48.4	31	5
SMCJ40A         SMCJ40CA         GFR         BFR         40         44.4         49.1         1         64.5         23.3         5           SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5	SMCJ33A	SMCJ33CA	GFM	BFM	33	36.7	40.6	1	53.3	28.2	5
SMCJ43A         SMCJ43CA         GFT         BFT         43         47.8         52.8         1         69.4         21.7         5           SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5<	SMCJ36A	SMCJ36CA	GFP	BFP	36	40	44.2	1	58.1	25.9	5
SMCJ45A         SMCJ45CA         GFV         BFV         45         50         55.3         1         72.7         20.6         5           SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5 <td>SMCJ40A</td> <td>SMCJ40CA</td> <td>GFR</td> <td>BFR</td> <td>40</td> <td>44.4</td> <td>49.1</td> <td>1</td> <td>64.5</td> <td>23.3</td> <td>5</td>	SMCJ40A	SMCJ40CA	GFR	BFR	40	44.4	49.1	1	64.5	23.3	5
SMCJ48A         SMCJ48CA         GFX         BFX         48         53.3         58.9         1         77.4         19.4         5           SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5	SMCJ43A	SMCJ43CA	GFT	BFT	43	47.8	52.8	1	69.4	21.7	5
SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5	SMCJ45A	SMCJ45CA	GFV	BFV	45	50	55.3	1	72.7	20.6	5
SMCJ51A         SMCJ51CA         GFZ         BFZ         51         56.7         62.7         1         82.4         18.2         5           SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5	SMCJ48A	SMCJ48CA	GFX	BFX	48	53.3	58.9	1	77.4	19.4	5
SMCJ54A         SMCJ54CA         GGE         BGE         54         60         66.3         1         87.1         17.3         5           SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5					51		62.7	1	82.4	18.2	
SMCJ58A         SMCJ58CA         GGG         BGG         58         64.4         71.2         1         93.6         16.1         5           SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5											
SMCJ60A         SMCJ60CA         GGK         BGK         60         66.7         73.7         1         96.8         15.5         5           SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5			_					1			5
SMCJ64A         SMCJ64CA         GGM         BGM         64         71.1         78.6         1         103         14.6         5           SMCJ70A         SMCJ70CA         GGP         BGP         70         77.8         86         1         113         13.3         5			_					1			
SMCJ70A SMCJ70CA GGP BGP 70 77.8 86 1 113 13.3 5			_				_				
	SMCJ75A	SMCJ75CA			75	83.3	92.1	1	121	12.4	5

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.



### 1500W SURFACE MOUNT TRANSIENT VOLTAGE

Reverse Voltage: 5.0-440 Volts Peak pulse power: 1500 Watts

Part Part Number Number (Uni) (Bi)		Device Marking Code		Reverse Stand off Voltage $V_R$	Breakdown Voltage VBR (Volts) @ I <sub>T</sub>		Test Current I <sub>T</sub> (mA)	Maximum Clamping Voltage V <sub>C</sub> @ I <sub>PP</sub> (Volts)	Current	Maximum Reverse Leakage I <sub>R</sub> @ V <sub>R</sub> (µA)
CN COLTO	CN ACTION A		BI	(Volts)	MIN	MAX	1		(A)	
SMCJ78A	SMCJ78CA		BGT	78	86.7	95.8	1	126	11.9	5
SMCJ85A	SMCJ85CA	GGV	BGV	85	94.4	104	1	137	11	5
SMCJ90A	SMCJ90CA	GGX	BGX	90	100	111	1	146	10.3	5
SMCJ100A	SMCJ100CA	GGZ	BGZ	100	111	123	1	162	9.3	5
SMCJ110A	SMCJ110CA	GHE	BHE	110	122	135	1	177	8.5	5
SMCJ120A	SMCJ120CA	GHG	BHG	120	133	147	1	193	7.8	5
SMCJ130A	SMCJ130CA	GHK	BHK	130	144	159	1	209	7.2	5
SMCJ150A	SMCJ150CA	GHM	BHM	150	167	185	1	243	6.2	5
SMCJ160A	SMCJ160CA	GHP	BHP	160	178	197	1	259	5.8	5
SMCJ170A	SMCJ170CA	GHR	BHR	170	189	209	1	275	5.5	5
SMCJ180A	SMCJ180CA	GHT	BHT	180	201	222	1	292	5.1	5
SMCJ200A	SMCJ200CA	GHV	BHV	200	224	247	1	324	4.6	5
SMCJ220A	SMCJ220CA	GHX	BHX	220	246	272	1	356	4.2	5
SMCJ250A	SMCJ250CA	GHZ	BHZ	250	279	309	1	405	3.7	5
SMCJ300A	SMCJ300CA	GJE	BJE	300	335	371	1	486	3.1	5
SMCJ350A	SMCJ350CA	GJG	BJG	350	391	432	1	567	2.6	5
SMCJ400A	SMCJ400CA	GJK	BJK	400	447	494	1	648	2.3	5
SMCJ440A	SMCJ440CA	GJM	BJM	440	492	543	1	713	2.1	5

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.