ABS1 THRU ABS10

SURFACE MOUNT FAST SWITCHING RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

FEATURES

- ♦Glass passivated chip junction.
- ◆Ideal for surface mounted applications.
- ◆Low leakage.
- ◆High forward surge current capability.
- ◆High temperature soldering guaranteed:

260°C/10 seconds at terminals.

Mechanical Data

◆Case: Molded plastic body.

◆Epoxy: UL94V-0 rate flame retardant.

◆Polarity: Molded on body.

◆Lead: Plated terminals solderable per MIL-STD-202E

method 208C.

◆Weight: 0.003 ounce, 0.1 gram.

ABS 0.60-0.70 0.15-0.25 3.90-4.10 0.05-0.15 4.90-5.10

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	ABS1	ABS2	ABS3	ABS4	ABS6	ABS8	ABS10	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current, $0.06''$ (1.5mm) lead length at T_L =90°C (Note 2)	I(AV)				1.0				A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							A
Rating for Fusing (t<8.3ms)	I^2t	10							A^2s
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A	$V_{\rm F}$	1.1							V
Maximum DC Reverse Current at $T_A=25^{\circ}\text{C}$ at Rated DC Blocking voltage $T_A=125^{\circ}\text{C}$	$ m I_R$	5 0.5							μΑ
									mA
Typical Junction Capacitance (Note 1)	C_{J}	25							pF
Typical Thermal Resistance (Note 2)	Rөjc	40							°C/W
Operating and Storage Temperature Range	T_J , T STG	-55 to +150							$^{\circ}$

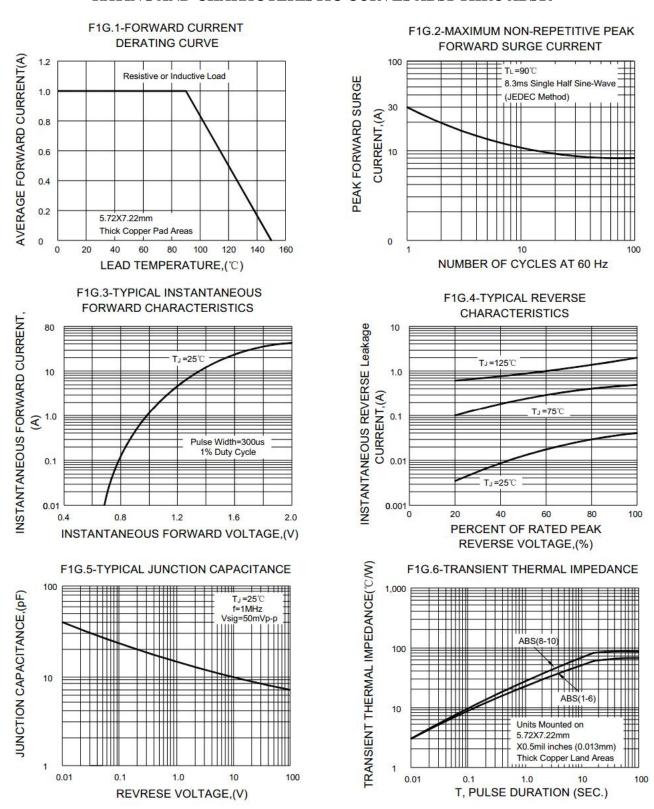
Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C.B. with 5.72 mm × 7.22 mm copper pads.

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RATING AND CHARACTERISTIC CURVES ABS1 THRU ABS10



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