Suntan_® Su_®

HER151 THRU HER158

HIGH EFFICIENCY RECTIFIERS

FORWARD CURRENT 2.0 Ampere **REVERSE VOLTAGE 50 to 1000 Volts**

FEATURES

- ♦ High speed switching
- ◆Low forward voltage drop
- ◆Low leakage current
- ♦ High forward surge capability
- ♦ High reliability
- ♦ High temperature soldering guaranteed

260°C/10 seconds,0.375" (9.5mm)lead length at 5

lbs(2.3kg) tension

Mechanical Data

- ◆Case: Transfer molded plastic
- ◆Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- ♦ Mounting position: Any

DO-15 1.0(25.4) .034(0.9) MIN. DIA .028(0.7) .299(7.6) 228(5.8) .142(3.6) DIA. 1.0(25.4) MIN.

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	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	210	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at T_A=55 $^\circ\!\!{\rm C}$		I(AV)	2.0								Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50							Amps	
Maximum instantaneous forward voltage at 2.0A		V _F	1.0 1.3 1.7				1.70		VOLTS		
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	IR	5.0							- uA	
	T _A = 100°C		100								
Maximum reverse recovery time (NOTE 1)		T _{RR}	50			75		nS			
Typical Junction Capacitance (Note 2)		CJ	30				20		pF		
Typical Thermal Resistance (Note 3)		Reja	50							°C/W	
Operating and storage temperature range		T _J ,Tsтg	-55 to +150							°C	

Note: 1. Reverse recovery condition If=0.5A, Ir=1.0A, Irr=0.25A.

2. Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

3. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted.

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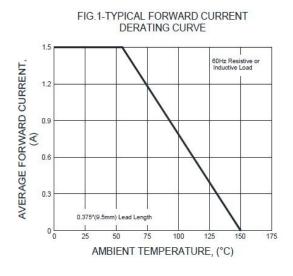


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REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

RATING AND CHARACTERISTIC CURVES HER151 THRU HER158



FORWARD SURGE CURRENT

FIG.2-MAXIMUM NON-REPETITIVE PEAK

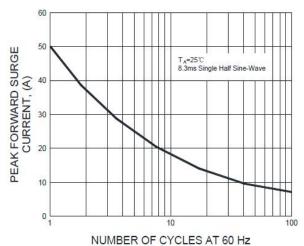


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

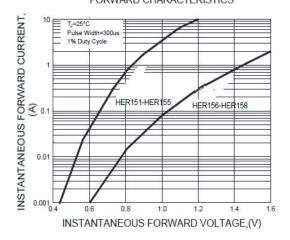


FIG.5-TYPICAL JUNCTION CAPACITANCE

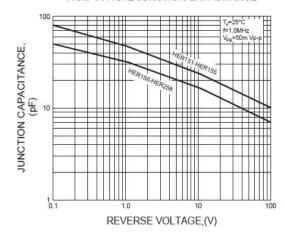
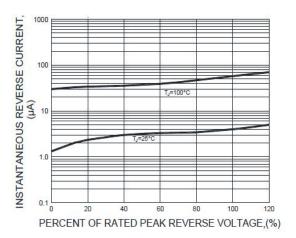
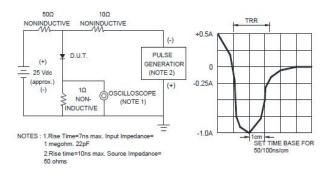


FIG.3-TYPICAL REVERSE CHARACTERISTICS



F1G.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



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