HIGH EFFICIENCY RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts

FORWARD CURRENT 2.0 Ampere

DO-15

HER151 7

HER158

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

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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		V _{DC}	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at T_A=55 $^\circ\!\mathrm{C}$		I(AV)	2.0								Amps
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			1.70			VOLTS		
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta= 25℃	- I _R	5.0								- uA
	TA = 100°C		100								
Maximum reverse recovery time (NOTE 1)		t _{rr}		50 75						nS	
Typical Junction Capacitance (Note 2)		CJ	30 20					20		pF	
Typical Thermal Resistance (Note 3)		Reja	50								°CMV
Operating and storage temperature range		T _J ,Tsтg	-55 to +150								°C
1 Deverse receiver condition If 0		• •	•								

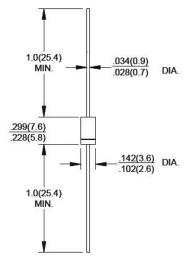
1- Reverse recovery condition If=0.5A,Ir=1.0A,Irr=0.25A.

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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Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES

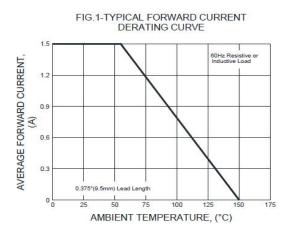


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

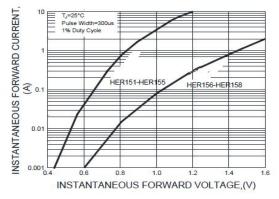


FIG.5-TYPICAL JUNCTION CAPACITANCE

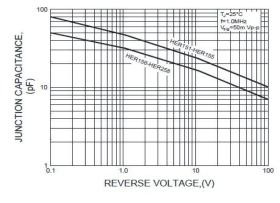


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

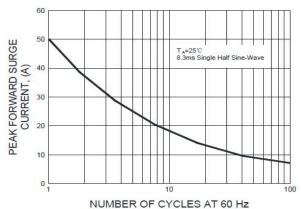
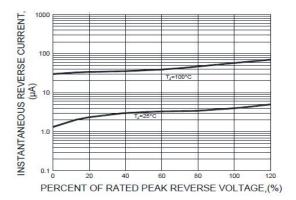
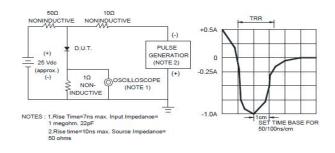


FIG.3-TYPICAL REVERSE CHARACTERISTICS



F1G.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



Note: Specifications are subject to change without notice.

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