

HER101 THRU HER108

HIGH EFFICIENCY RECOVERY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

- ◆Low forward voltage drop
- ◆Low leakage current
- ♦ High forward surge capability
- ♦ 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

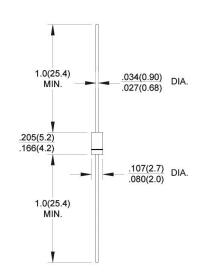
◆Polarity: Color band denotes cathode end

◆Lead: Plated axial lead, solderable per MIL-STD-202E

method 208C

◆Mounting position: Any

DO-41



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 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS Voltage		V _{RMS}	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 T₄=55°C		I _(AV)	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps	
Maximum instantaneous forward voltage at 1.0A		V_{F}	1.0 1.3			1.7			VOLTS		
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	lπ	5.0								- uA
	T _A = 100°C		100								
Maximum reverse recovery time (NOTE 1)		T_RR	50			75		ns			
Typical Junction Capacitance (Note 2)		Сл	15				12		pF		
Typical Thermal Resistance (Note 3)		RөJA	50								°C/W
Operating and storage temperature range		T _J ,Тsтg	-55 to +150								$^{\circ}$

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 Volts.
- 3. Thermal Resistance thermal Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.

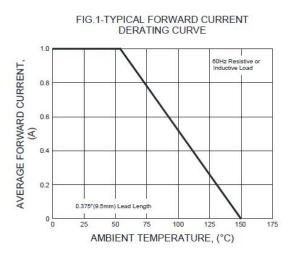


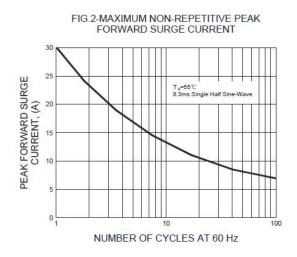
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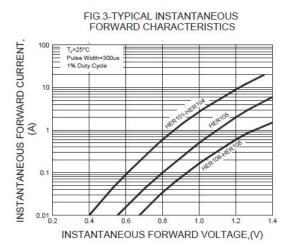
SCHOTTKY BARRIER RECTIFIER

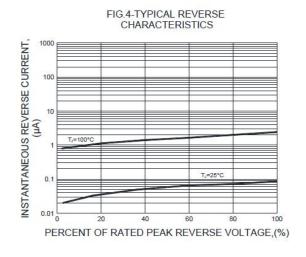
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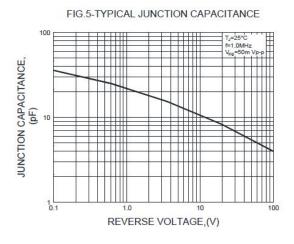
RATING AND CHARACTERISTIC CURVES SS12 THRU SS110

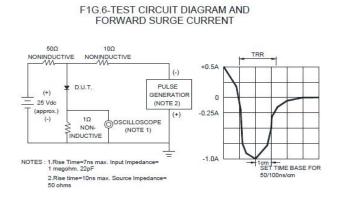












Note: Specifications are subject to change without notice. For more detail and update, please visit our website.