HIGH EFFICIENCY RECOVERY RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

DO-41

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

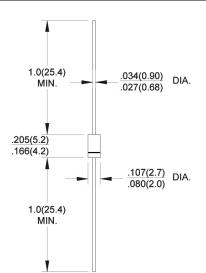
For capacitive load derate current by 20%											
PARAMETER		SYMBOL	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	210	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		Vdc	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at T_{A}=55 $^\circ\!\mathrm{C}$		I(AV)	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		FSM	30								Amps
Maximum instantaneous forward voltage at 1.0A		VF	1.0 1.3 1.7					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	15 12					pF			
Typical Thermal Resistance (Note 3)		Reja	50								°CW
Operating and storage temperature range		Т _Ј ,Тѕтс	-55 to +150								°C

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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HER101 THR

HER108

Dimensions in inches and (millimeters)

1

R

RATINGS AND CHARACTERISTIC CURVES

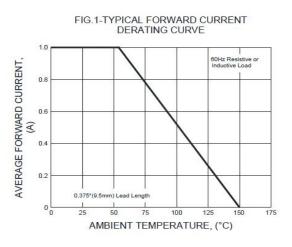


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

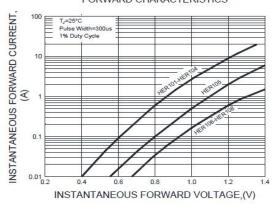
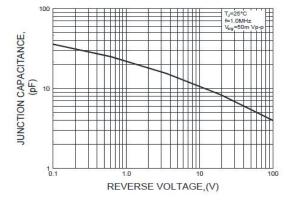


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

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

HER108

HER101 THRU

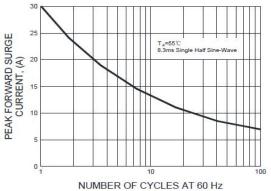
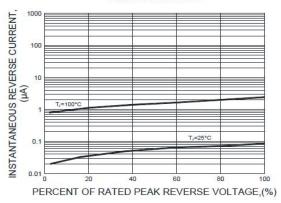
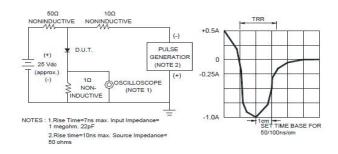


FIG.4-TYPICAL REVERSE CHARACTERISTICS



F1G.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



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