HER101 THRU HER108

HIGH EFFICIENCY RECOVERY RECTIFIERS

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

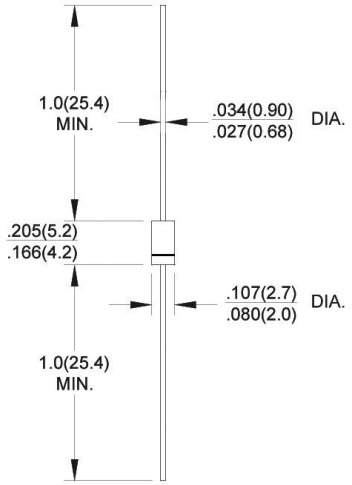
FEATURES

- ◆Low forward voltage drop
- ◆Low leakage current
- ◆High forward surge capability
- ◆High temperature soldering guaranteed 260℃/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℃ 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 T_A=55℃		$I_{(AV)}$	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	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℃	I_R	5.0								uA
	T_A = 100℃		100								
Maximum reverse recovery time (NOTE 1)		T_{RR}	50					75			ns
Typical Junction Capacitance (Note 2)		C_J	15					12			pF
Typical Thermal Resistance (Note 3)		$R_{\theta JA}$	50								℃/W
Operating and storage temperature range		T_J ,T_{STG}	-55 to +150								℃

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.

HER101 THRU HER108

SCHOTTKY BARRIER RECTIFIER

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

RATING AND CHARACTERISTIC CURVES SS12 THRU SS110

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

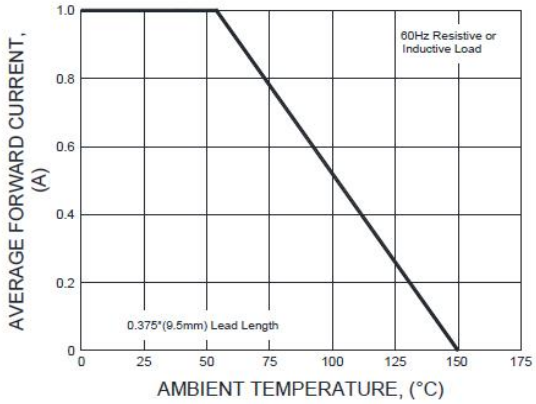


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

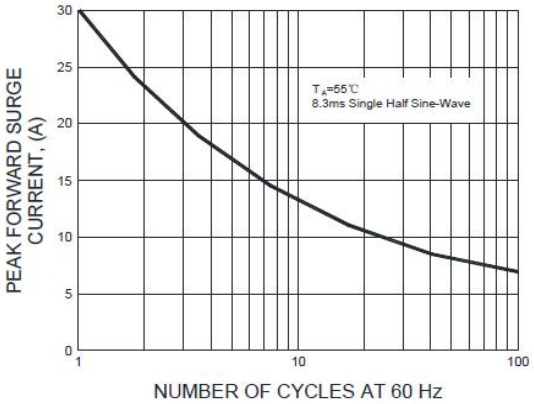


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

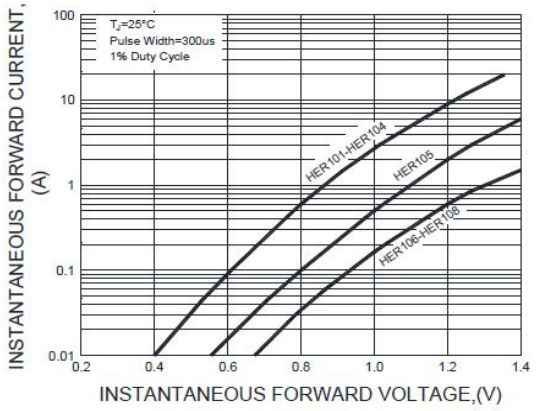


FIG.4-TYPICAL REVERSE CHARACTERISTICS

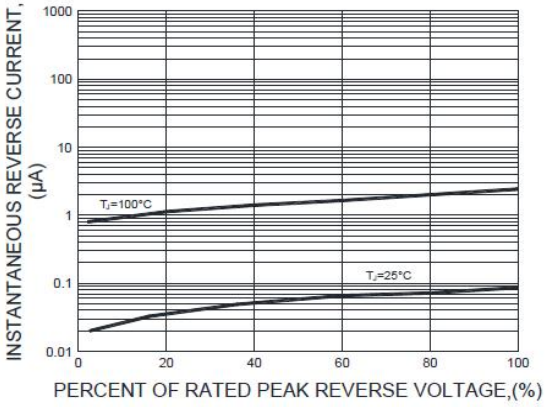
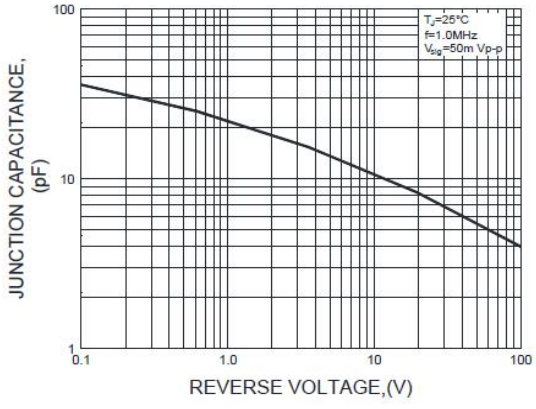
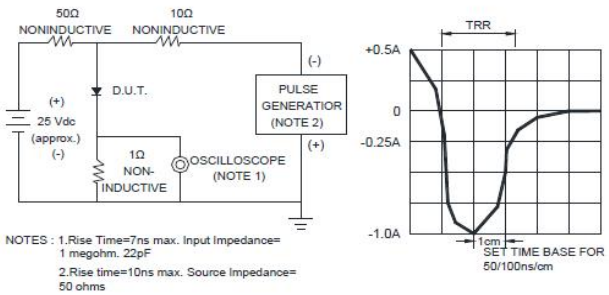


FIG.5-TYPICAL JUNCTION CAPACITANCE



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.