

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

HER501G THRU HER508G

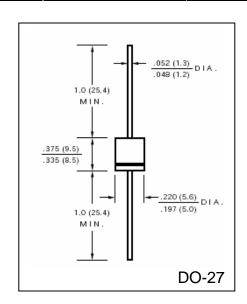
VOLTAGE RANGE CURRENT 50 to 1000 Volts 5.0 Ampere

FEATURES

- Glass passivated chip junction
- Low power loss, high efficiency
- Low Leakage
- High speed switching
- High Surge Capacity
- High Temperature soldering guaranteed: 260 °C / 10 second, 0.375" (9.5mm) lead length

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
- Weight: 0.042 ounce, 1.19 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

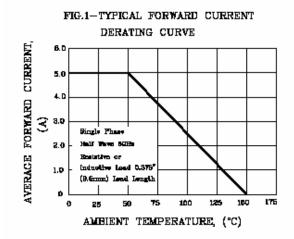
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

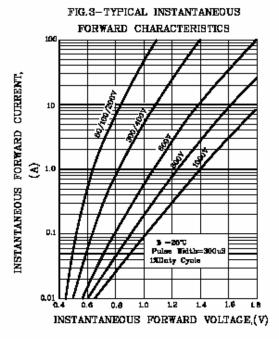
SYMBOLS	HER 501G			HER 504G	HER 505G	HER 506G	HER 507G	HER 508G	UNIT
Vnnu									Volts
									Volts
	50								Volts
I _(AV)	5.0								Amps
I_{FSM}	200 150							Amps	
$V_{\rm F}$	1.0		1	1.3		1	.7	Volts	
I _R 10 500								μА	
$I_{R(AV)}$	150								μΑ
t_{rr}	50					7	0	nS	
C_{J}	70						5	0	pF
$R_{\theta JA}$	20								^o C/W
T_{J}	(-55 to +150)								^o C
T_{STG}	(-55 to +150)								^o C
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{(AV)} \\ \\ I_{FSM} \\ \\ V_{F} \\ I_{R} \\ \\ I_{R(AV)} \\ \\ t_{rr} \\ C_{J} \\ R_{\theta JA} \\ T_{J} \end{array}$	SYMBOLS 501G VRRM 50 VRMS 35 VDC 50 I(AV) IFSM	SYMBOLS 501G 502G V_{RRM}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

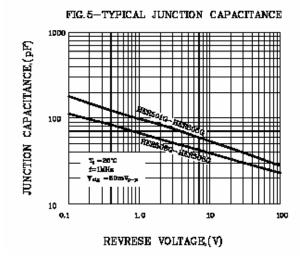
Notes:

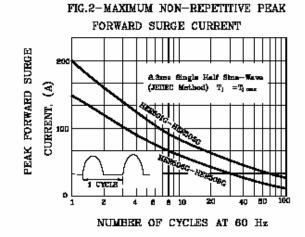
1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

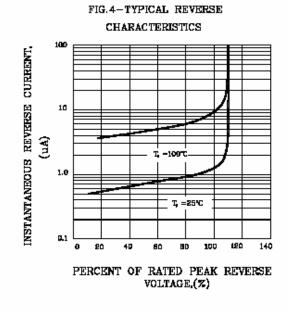
RATINGS AND CHARACTERISTIC CURVES HER501G THRU HER508G











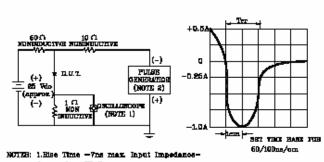


FIG.8-TEST CIRCUIT DIAGRAM AND

REVERSE RECOVERY TIME CHARACTERISTIC

1 megohm. XXpF 2.Riss thms=10us max. Source Empedance= 50 ohms