

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

HER251G THRU HER258G

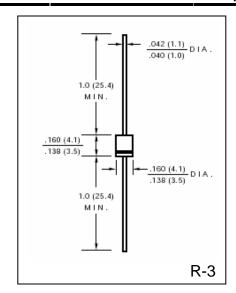
VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.5 Ampere

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: 0.020 ounce, 0.56 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

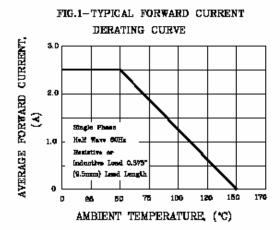
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

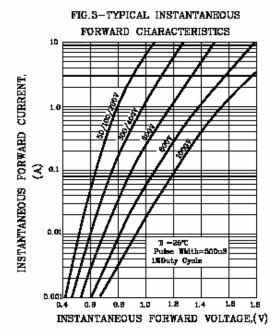
	SYMBOLS	HER 251G	HER 252G	HER 253G	HER 254G	HER 255G	HER 256G	HER 257G	HER 258G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, At $T_A = 50^{\circ}$ C	$I_{(AV)}$	2.5								Amps
Peak Forward Surge Current										
8.3mS single half sine wave superimposed on	I_{FSM}	150							Amps	
rated load (JEDEC method)										
Maximum Instantaneous Forward Voltage @ 2.5A	V_{F}	1.0		1	.3	1.5	1.7		Volts	
Maximum DC Reverse Current at Rated $T_A = 25$ °C	т.		5.0							
DC Blocking Voltage per element $T_A = 125$ °C	I_R 250								μA	
Maximum Full Load Reverse Current, Full Cycle average 0.375 " (9.5mm) lead length at $T_L = 55$ °C	$I_{R(AV)}$	100								μΑ
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$	t_{rr}	50 70						nS		
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	30 35						pF		
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	35							^o C/W	
Operating Junction Temperature Range	T_{J}	(-55 to +150)								°C
Storage Temperature Range	T_{STG}	(-55 to +150)								°C

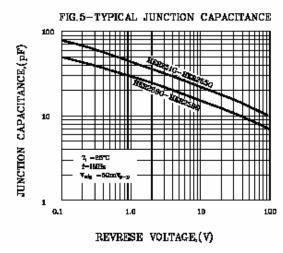
Notes:

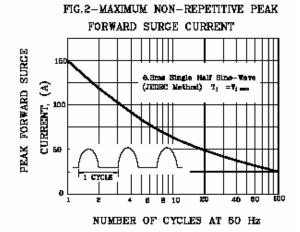
1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

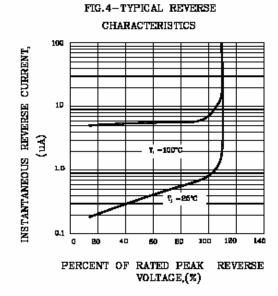
RATINGS AND CHARACTERISTIC CURVES HER251G THRU HER258G

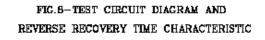


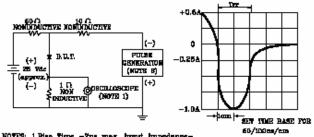












NOTES: 1.Rise Time - 7ms max. Input impedance-1 magnims. 22pF

2. Has time-10ms max. Source impedance-50 ohms