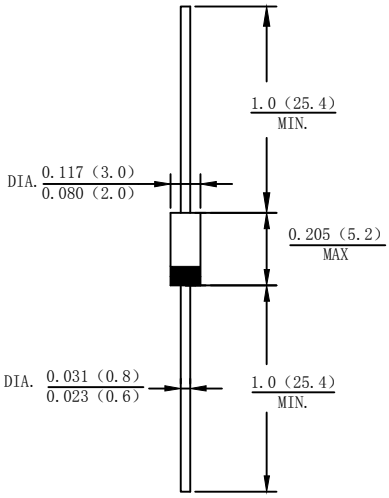
HER101G THRU HER108G

1.0 AMP. Glass High Efficient Rectifiers

Features

- Low power loss.
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Case: DO-41



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version

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%

Type Number	SYMBOL	HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Average Rectified Output Current (Note 1) @T_L =90℃	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35								A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	5.084								A^2s
Forward Voltage @IF=1.0A	V_{FM}	1.0			1.3		1.7			V
Peak Reverse Current @T_A =25℃	I_R	5.0								uA
At Rated DC Blocking Voltage @T_A =125℃		100								
Maximum Reverse Recovery Time (Note2)	T_{RR}	50					75			nS
Typical Junction Capacitance (Note 3)	C_J	8								pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	65								℃/W
	$R_{\theta JC}$	15								
Operating Temperature Range	T_J	-55 to + 150								℃
Storage Temperature Range	T_{STG}	-55 to + 150								℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

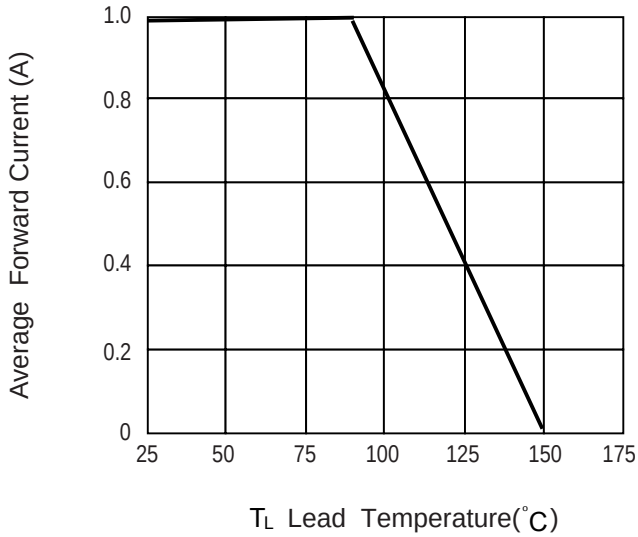


Fig. 2 Typ. Forward Characteristics

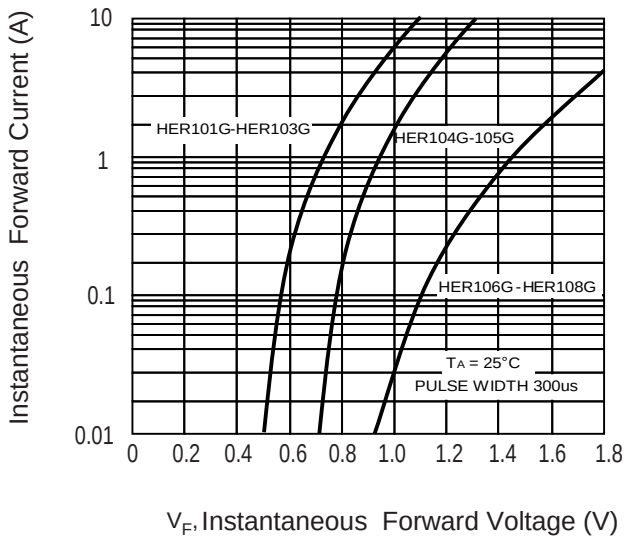


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

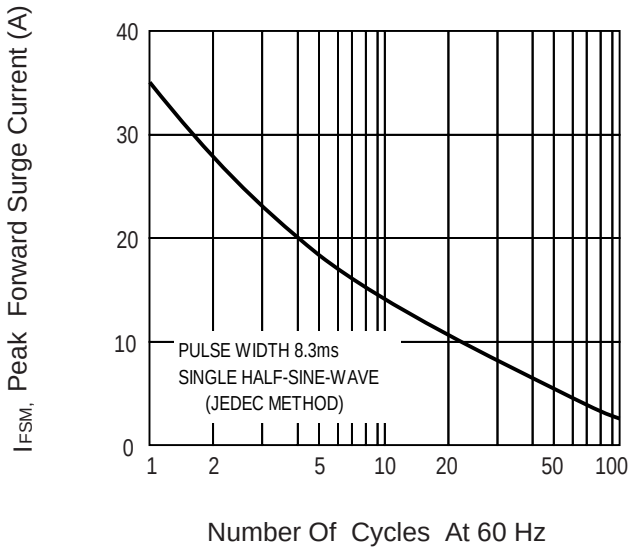
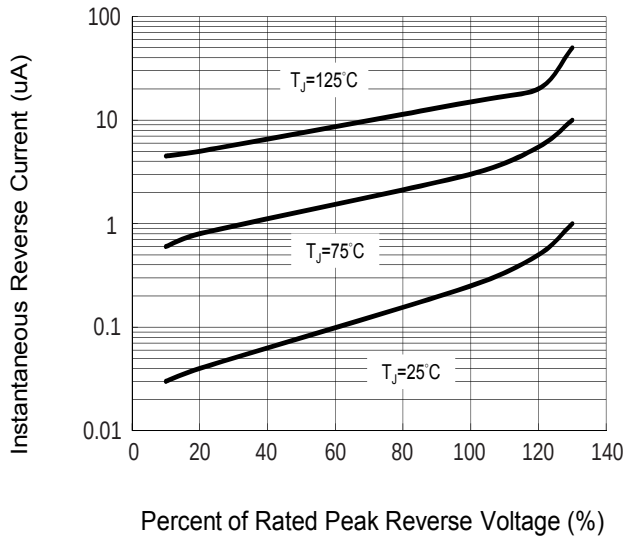


Fig. 4 Typical Reverse Characteristics (per element)



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