

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

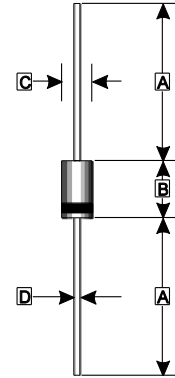
## FEATURES

- Low Power Loss
- High Current Capability
- High Reliability
- High Surge Current Capability
- Plastic Material-UL Flammability 94V-0

## PACKAGING INFORMATION

- Glass Passivated
- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Plated leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any

**DO-41**



## ORDER INFORMATION

Part Number	Type
HER101G~HER107G	Lead (Pb)-free
HER101G-C~HER107G-C	Lead (Pb)-free and Halogen-free

REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP.)	
B	4.10	5.21
C	2.00	3.00
D	0.60	0.90

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameters	Symbol	Part Numbers							Units
		HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	
Maximum Recurrent Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Forward Rectified Current <sup>1</sup> @ $T_L=90^\circ\text{C}$	$I_o$	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	35							A
Forward Voltage @ $I_F=1\text{A}$	$V_F$	1.0		1.3		1.7			V
Peak Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	5.0							uA
	$T_A=125^\circ\text{C}$	100							
Maximum Reverse Recovery Time <sup>2</sup>	$T_{RR}$	50				75			nS
Typical Junction Capacitance <sup>3</sup>	$C_J$	8							pF
Typical Thermal Resistance Junction-Ambient	$R_{\theta JA}$	65							$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55~150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55~150							

Notes:

1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
2. Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{RR}=0.25\text{A}$ .
3. Measured at 1MHz and applied reverse voltage of 4V D.C.

**RATINGS AND CHARACTERISTIC CURVES (HER101G THRU HER107G)**

Fig. 1 Forward Current Derating Curve

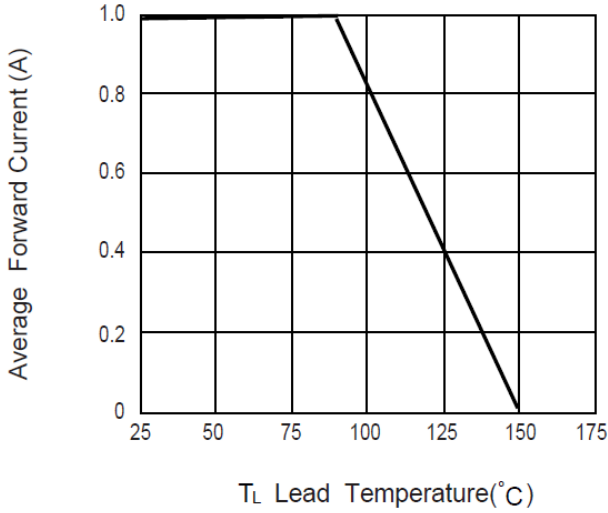


Fig. 2 Typ. Forward Characteristics

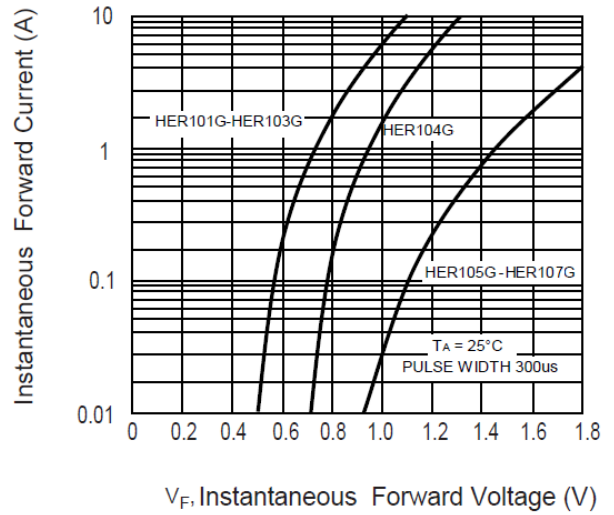


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

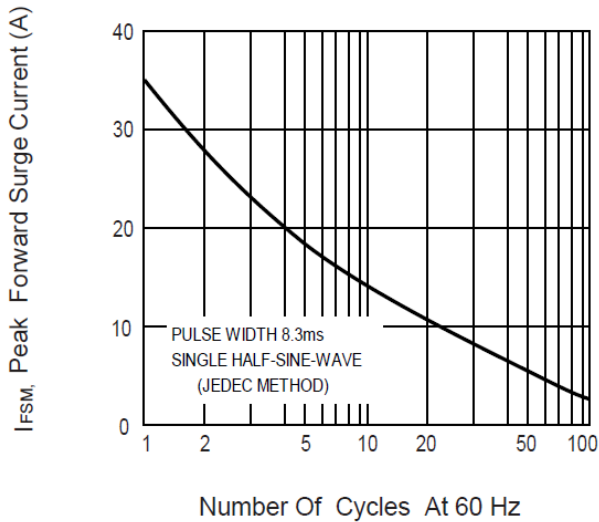


Fig. 4 Typical Reverse Characteristics (per element)

