

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

FEATURES

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- High Speed Switching

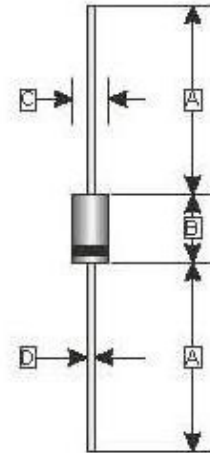
MECHANICAL DATA

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

ORDER INFORMATION

Part Number	Type
HER11G~HER17G	Lead (Pb)-free
HER11G-C~HER17G-C	Lead (Pb)-free and Halogen-free

DO-41



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

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

Parameters	Symbol	Part Number							Unit
		HER 11G	HER 12G	HER 13G	HER 14G	HER 15G	HER 16G	HER 17G	
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	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Instantaneous Forward Voltage @I _F =1A	V _F	1		1.3	1.7			V	
Average Rectified Output Current ¹ @T _L =90°C	I _F	1							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	35							A
I ² t Rating for Fusing (t<8.3ms)	I ² t	5.084							A ² S
Peak Reverse Current @Rated DC Blocking Voltage	I _R	5							uA
		100							
Reverse Recovery Time ²	T _{RR}	50				75			nS
Junction Capacitance ³	C _J	8							pF
Thermal Resistance Junction- Ambient ⁴	R _{θJA}	65							°C/W
Operating & Storage Temperature Range	T _J , T _{STG}	-55~150							°C

Notes:

1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A.
3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
4. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length.

CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

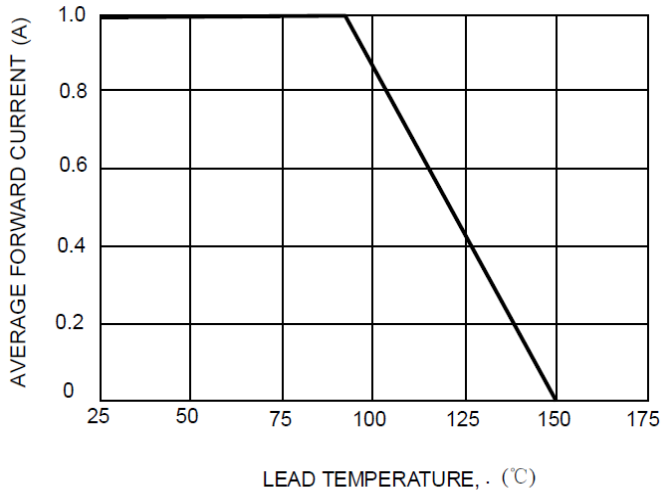


FIG.2-TYPICAL FORWARD CHARACTERISTICS

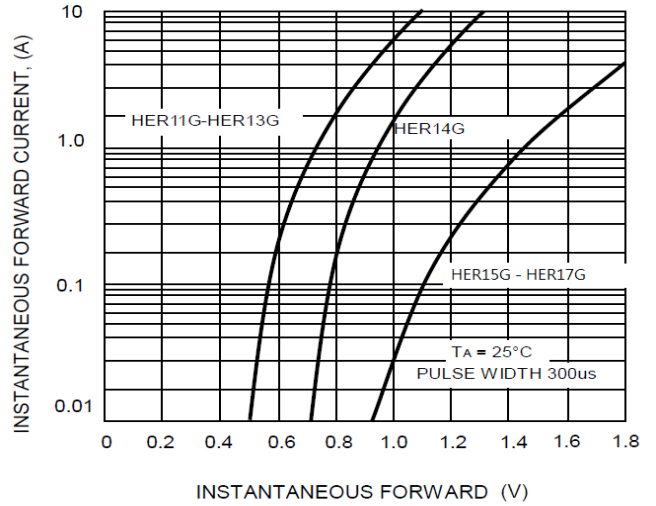


FIG. 3 – MAXIMUM NON-REPEITITIVE SURGE CURRENT

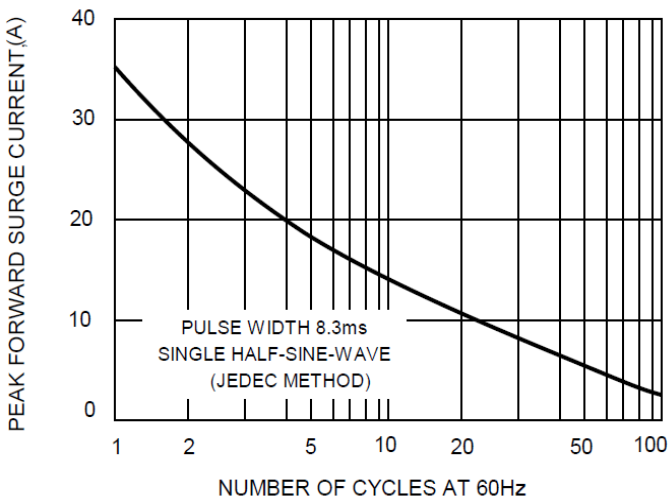


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

