

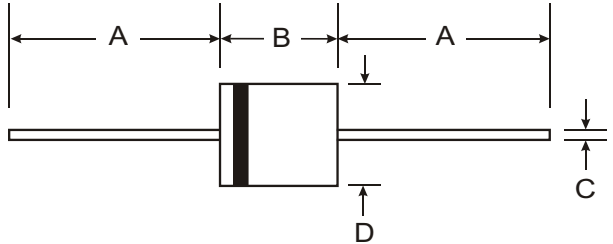
Features

High Surge Current Capability
 Low Leakage and Forward Voltage Drop
 Plastic Material - UL Flammability
 Classification 94V-0
 Low Power Loss, High Efficiency

Mechanical Data

Case: Molded Plastic
 Terminals: Axial Leads, Solderable per
 MIL-STD-202, Method 208
 Polarity: Color Band Indicates Cathode
 Approx. Weight: 1.7 grams
 Mounting Position: Any

DISCONTINUED



R-6		
Dim	Min	Max
A	25.4	—
B	8.6	9.1
C	1.2	1.3
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	HER601	HER602	HER603	HER604	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	V
Maximum RMS Voltage	V_{RSM}	35	70	140	210	V
Maximum dc Blocking Voltage	V_{DC}	50	100	200	300	V
Maximum Average Forward Rectified Current (Fig. 1)	$I_{(AV)}$	6.0				A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250				A
Maximum Instantaneous Forward Voltage at 6.0Adc	V_F	1.2				V
Maximum dc Reverse Current at Rated dc Blocking Voltage $T_A = 25^\circ\text{C}$	I_R	10				μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	60				ns
Maximum Full Load Reverse Current Full Cycle Average 9.5mm lead length at $T_C = 55^\circ\text{C}$	I_R	150				μA
Typical Junction Capacitance (Note 2)	R_{JA}	100				pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150				$^\circ\text{C}$

Notes: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{RR} = 0.25\text{ A}$
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

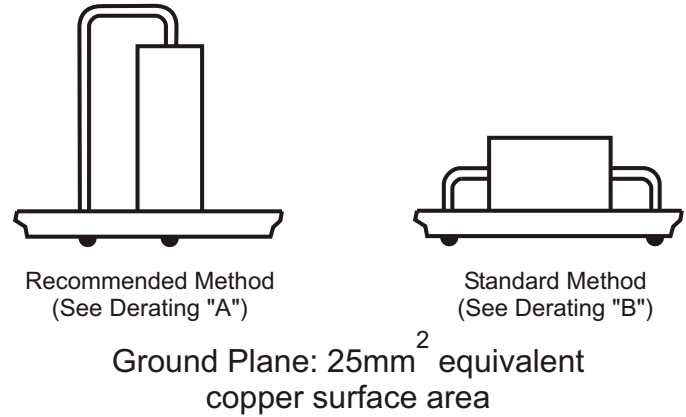
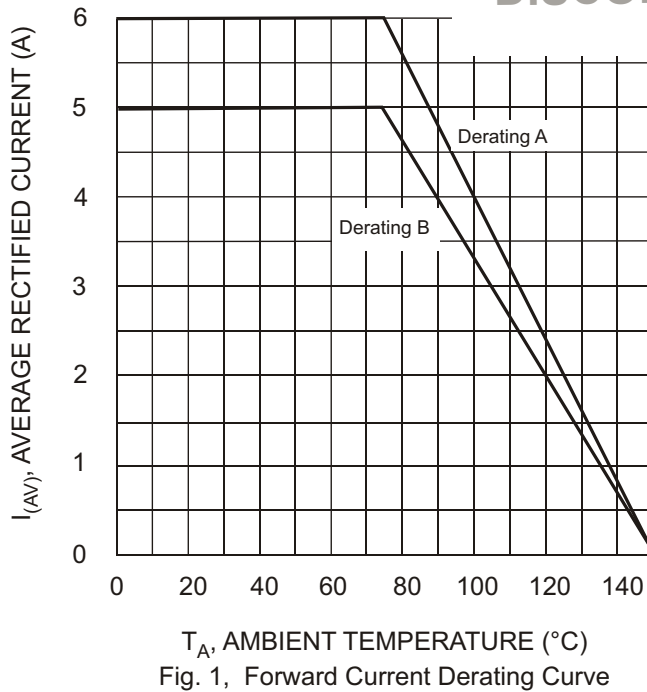
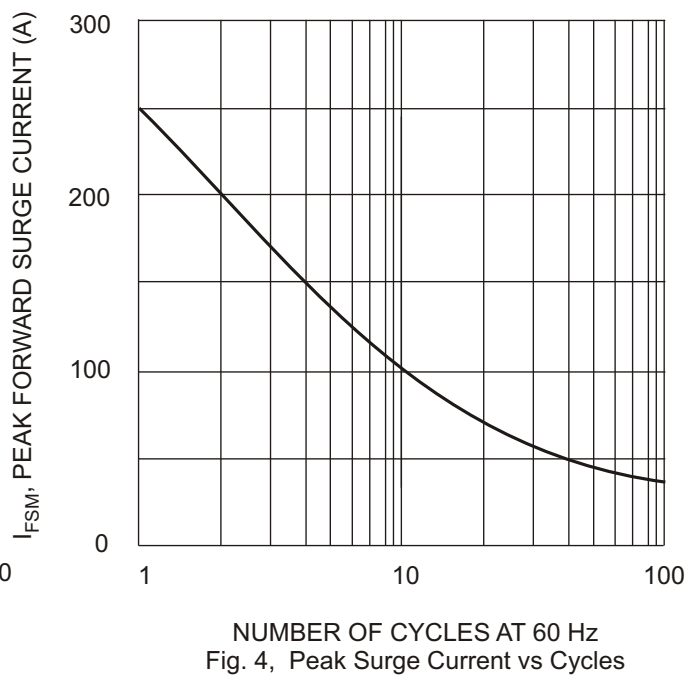
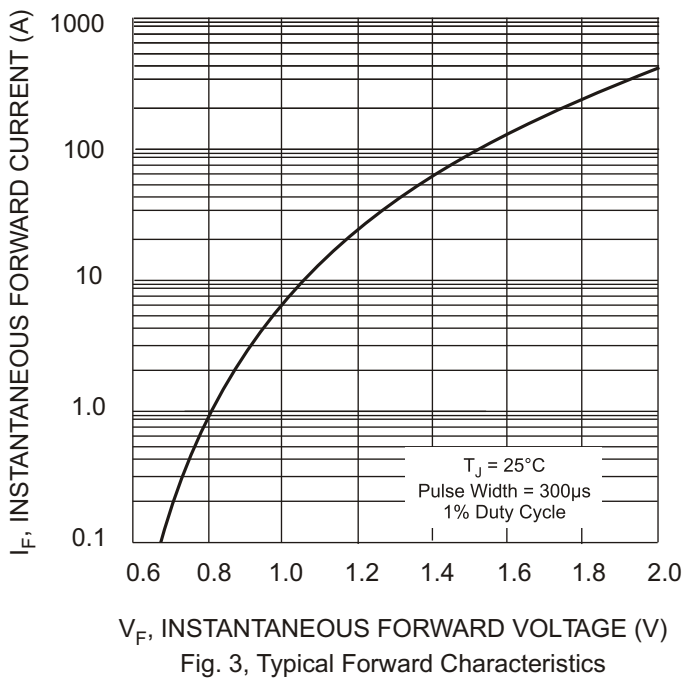


Fig. 2, Printed Circuit Board Mounting Method



IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.