

	8.3 ms single half-sine-wave	60	A
	Superimposed on rated load (JEDEC method)		
PD	Total Device Dissipation	3.13	W
	Derate above 25°C	25	mW/°C
$R_{\theta J A}$	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	15	°C/W
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	۵°
TJ	Operating Junction Temperature	-55 to +150	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

\*\*Device mounted on PCB with 0.375" (9.5 mm) lead length.

# Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Parameter	Device						Units	
	005G	01G	02G	04G	06G	08G	10G	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage Current, per leg @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$				5.0 500				μΑ μΑ
Maximum Forward Voltage Drop, per bridge @ 2.0 A				1.1				V
$l^2$ t rating for fusing t < 8.3 ms				10				A <sup>2</sup> Sec
Typical Junction Capacitance, per leg $V_R = 4.0 V, f = 1.0 MHz$ 19					pF			

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2W005G - 2W10G

**Glass Passivated Bridge Rectifiers** (continued) **Typical Characteristics** Forward Current Derating Curve **Non-Repetitive Surge Current** 2 
 PEAK FORWARD SURGE CURRENT (A)

 09
 02
 03

 01
 02
 04

 02
 03
 05

 03
 06
 05

 04
 09
 05
FORWARD CURRENT (A) 1 1 0.2 SINGLE PHASE HALF WAVE 60HZ - RESISTIVE OR INDUCTIVE LOAD .375" (9.0mm) LEAD LENGTHS 0 L 25 50 75 100 125 150 175 5 10 20 NUMBER OF CYCLES AT 60Hz 2 50 100 AMBIENT TEMPERATURE (°C) 13. 36 **Reverse Characteristics Forward Characteristics** 10 100 FORWARD CURRENT (A) т = 125°Ċ 10 1  $T_{A} = 25^{\circ}C$ Pulse Width = 2% Duty Cycle 0.1 1  $T_A = 25^{\circ}C$ 0.01 0.1 0 0.2 0.4 0.6 0.8 1.2 1.4 0 20 40 60 80 100 120 140 1 FORWARD VOLTAGE (V) PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

2W005G - 2W10G

2W005G -2 W10G, Rev. A

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