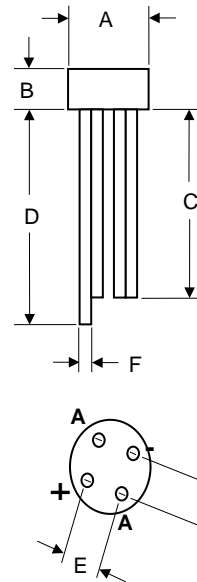


Features

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Glass passivated chip junction
- * High case dielectric strength
- * Typical I_R less than $0.1\mu A$
- * High overload surge current
- * Ideal for printed circuit boards
- * High temperature soldering guaranteed:
260°C/10 seconds, 0.375 (9.5mm) lead length,
5lbs. (2.3kg) tension



RoHS
COMPLIANT



DIM	WOB			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.339	0.358	8.6	9.1
B	0.197	0.290	5.0	5.5
C	0.728	-	18.5	-
D	0.846	-	21.5	-
E	0.181	0.220	4.6	5.6
F	0.027	0.031	0.68	0.78

Mechanical Data

- * Case: Molded plastic body over passivated junctions
- * Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- * Mounting Position: Any
- * Weight: 0.04 oz., 1.1 g

Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbols	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Units
Maximum repetitive peak 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
Maximum average forward rectified current at 0.375" (9.5mm) lead length at T _A =25°C	I _{F(AV)}	1.5							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							A

Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise noted)

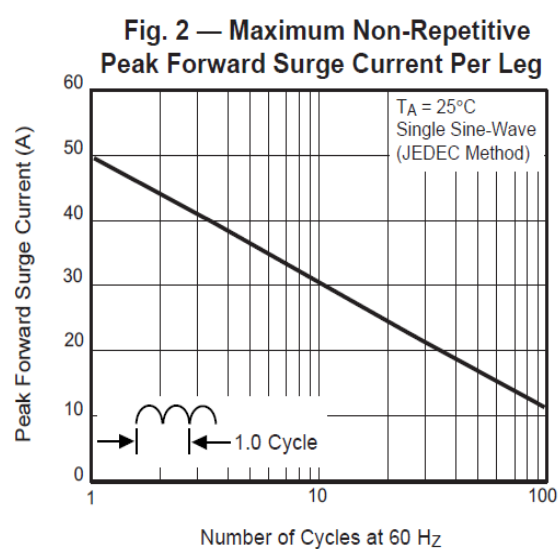
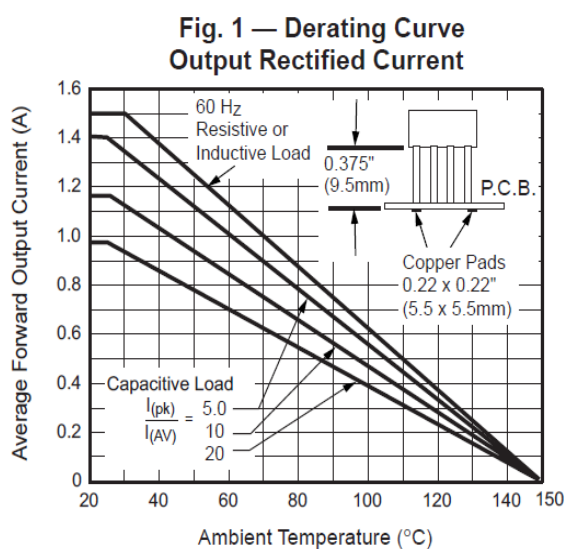
Parameter	Symbols	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Units
Rating for fusing (t<8.3ms)	I ² t	10							A ² sec
Typical thermal resistance per leg ⁽¹⁾	R _{θJA}	36							°C/W
	R _{θJL}	11							
Operating junction temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbols	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Units
Maximum instantaneous forward voltage drop per leg at 1.0A	V _F	1							V
Maximum DC reverse current at rated T _A =25°C	I _R	5							μA
DC blocking voltage per leg T _A =125°C		500							
Typical junction capacitance per leg at 4.0V, 1MHz	C _J	14							pF

Notes: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounting

Ratings and Characteristic Curves



Ratings and Characteristic Curves

Fig. 3 — Typical Forward Characteristics Per Leg

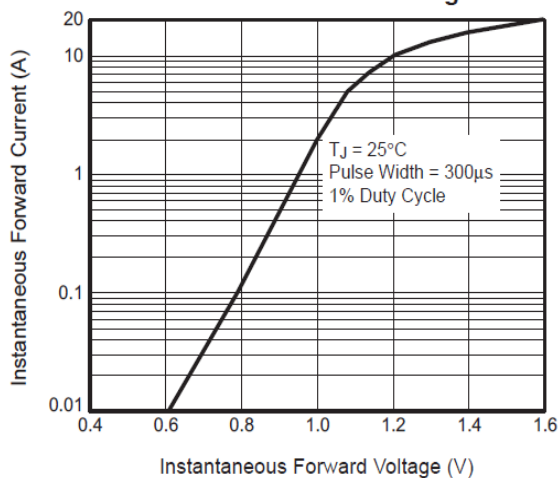


Fig. 4 — Typical Reverse Leakage Characteristics Per Leg

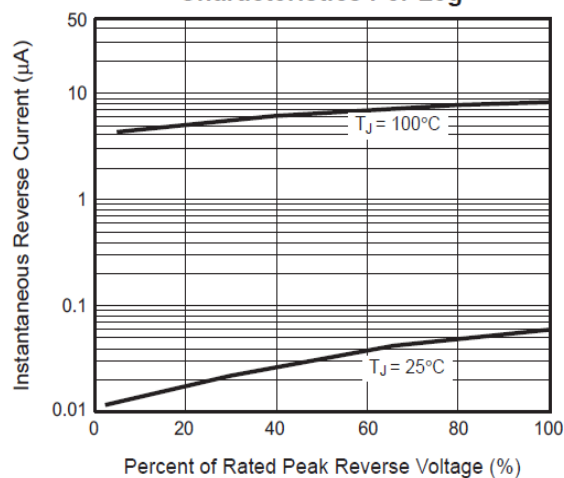


Fig. 5 — Typical Junction Capacitance Per Leg

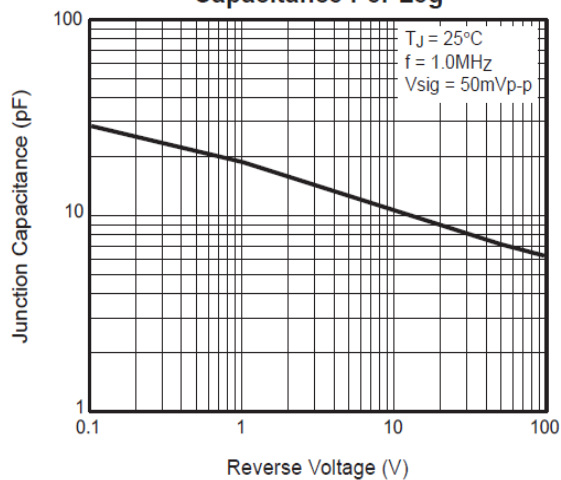
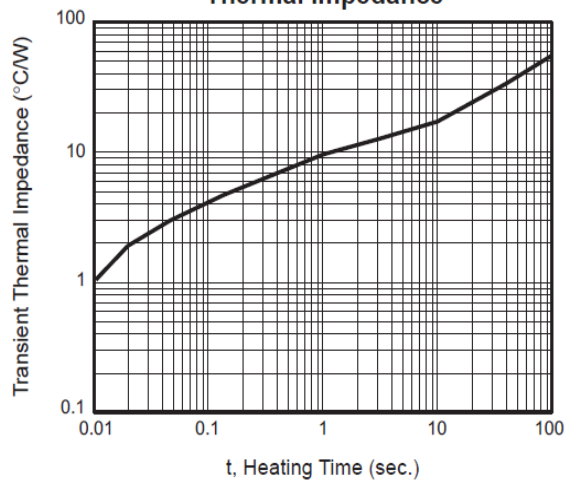


Fig. 6 — Typical Transient Thermal Impedance





W005G thru W10G

Glass Passivated Single-Phase Bridge Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
W005G thru W10G	WOB	B10	500pcs/Bulk

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