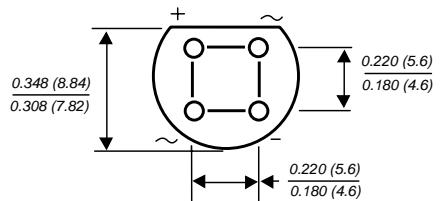
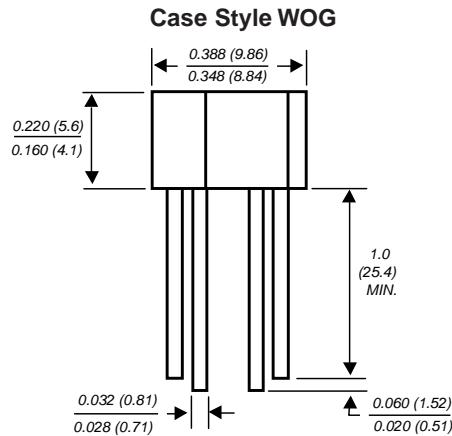




Glass Passivated Single-Phase Bridge Rectifier

 Rectifier Reverse Voltage 50 and 1000 V
 Rectifier Forward Current 2.0 A


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component Index, file number E54214
- Glass passivated chip junction
- High case dielectric strength
- Typical I_{FR} less than $0.5\mu A$
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: $260^{\circ}C/10$ seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

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

Packaging codes/options:
1/100 EA. per Bulk Bag

Maximum Ratings & Thermal Characteristics

Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.

Parameter	Symbols	2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	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 (See Fig 1.)	$I_{F(AV)}$				2.0				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}				60				A
Rating for fusing ($t < 8.3ms$)	I^2t				15				A^2sec
Typical thermal resistance per leg ⁽¹⁾	$R_{\theta JA}$ $R_{\theta JL}$				40				$^{\circ}C/W$
Operating junction temperature range	T_J				-55 to +150				$^{\circ}C$
Storage temperature range	T_{STG}				-55 to +150				$^{\circ}C$

Electrical Characteristics

Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.

Parameter	Symbols	2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	Units
Maximum instantaneous forward voltage drop per leg at 2.0A	V_F				1.1				V
Maximum DC reverse current at rated $T_A=25^{\circ}C$ DC blocking voltage per leg $T_A=125^{\circ}C$	I_R				5.0				μA
Typical junction capacitance per leg at 4.0V, 1MHz	C_J		40			20			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 (TA = 25°C unless otherwise noted)

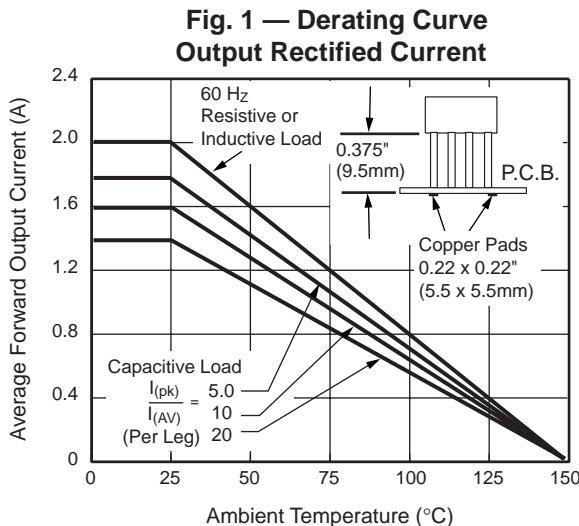


Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current Per Leg

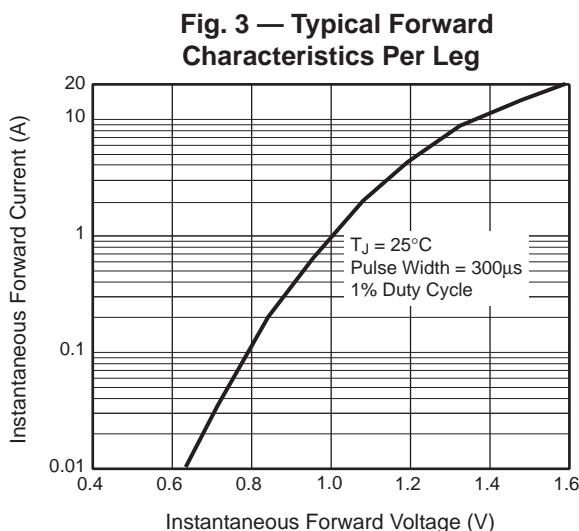
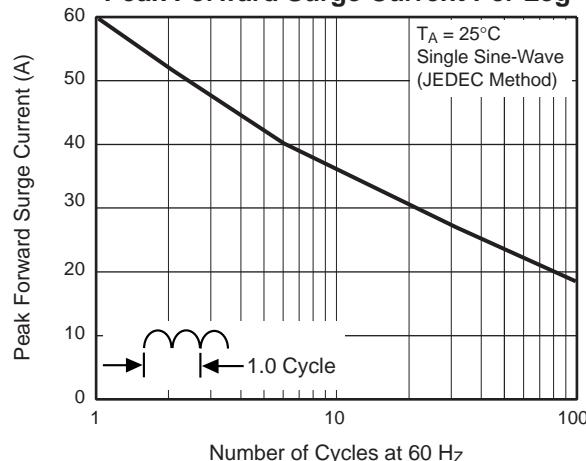


Fig. 4 — Typical Reverse Leakage Characteristics Per Leg

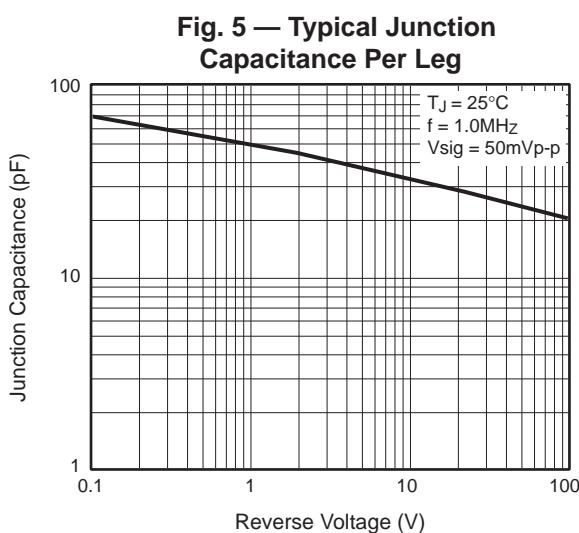
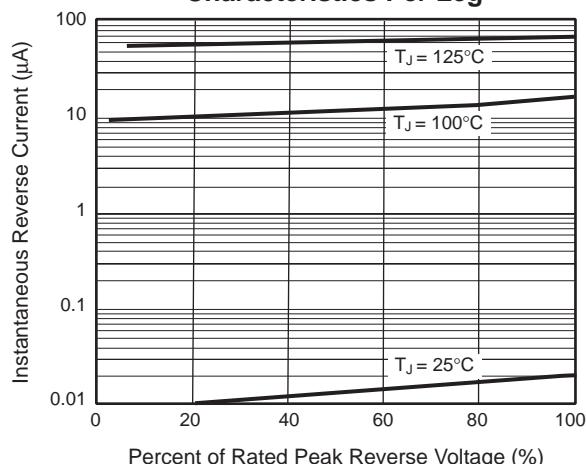


Fig. 6 — Typical Transient Thermal Impedance

