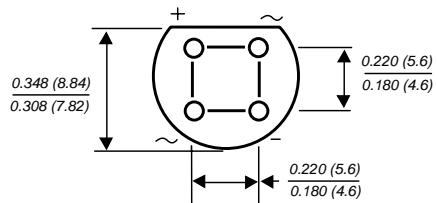
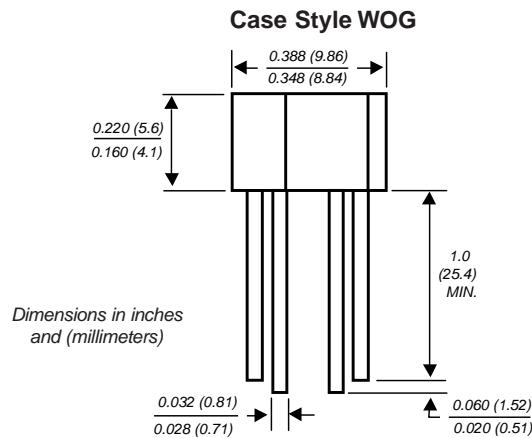




Glass Passivated Single-Phase Bridge Rectifier

 Reverse Voltage 50 and 1000V
 Forward Current 1.5A


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 IR less than 0.1 μ 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

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°C ambient temperature unless otherwise specified.

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 TA=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
Rating for fusing (t<8.3ms)	I ² t				10				A ² sec
Typical thermal resistance per leg ⁽¹⁾	R _{θJA} R _{θJL}				36 11				°C/W
Operating junction temperature range	T _J			-55 to +150					°C
Storage temperature range	T _{STG}			-55 to +150					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	W005G	W01G	W02G	W04G	W06G	W08G	W10G	Units
Maximum instantaneous forward voltage drop per leg at 1.0A	V _F			1.0					V
Maximum DC reverse current at rated T _A =25°C DC blocking voltage per leg T _A =125°C	I _R			5.0 500					μA
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

W005G thru W10G



Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

