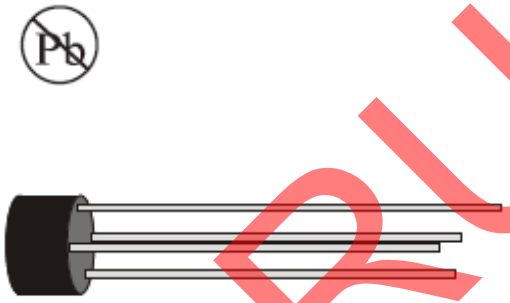
TRR®

2W005~2W10

Glass Passivated Brigde Rectifiers

Features

- Ideal for printed circuit board
- Low forward voltage
- Low leakage current
- Glass passivated chip junctions
- High forward surge capability
- High temperature soldering：
  260℃/10 seconds at terminals



Mechanical Date

- **Case: WOG**
- **Polarity:** marked on body
- **Mounting position:** Any

Major Ratings and Characteristics

$I_{F(AV)}$	**2.0 A**
V_{RRM}	**50 V to 1000 V**
I_{FSM}	**60A**
V_F	**1.1V**
T_j **max.**	**150 °C**

Maximum Ratings & Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified
Single phase ,half wave, 60Hz,resistive or inductive load
For capacitive load, derate current by 20%.

Items	Symbol	2W005	2W01	2W02	2W04	2W06	2W08	2W10	UNIT
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 .375"(9.5mm) lead length at T_A=25℃	$I_{F(AV)}$	2.0							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	60							A
I^2t Rating for Fusing (t＜8.3ms)	I^2t	15							A^2S
Operating junction temperature range	T_J	–55 to +150							℃
Storage temperature range	T_{STG}	–55 to +150							℃

Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	VALUE	UNIT
Instantaneous forward voltage	I_F=1.0 A		V_F	1.1	V
Reverse current	V_R=V_{DC}	T_A=25℃	I_R	10	μA
		T_A=100℃		1	mA

Rating and Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

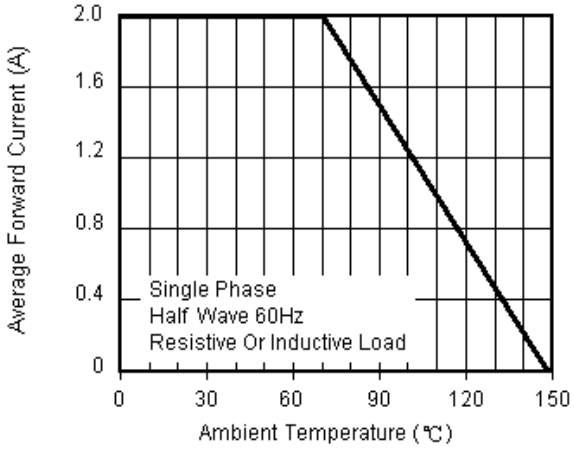


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig.3 Typical Instantaneous Forward Characteristics

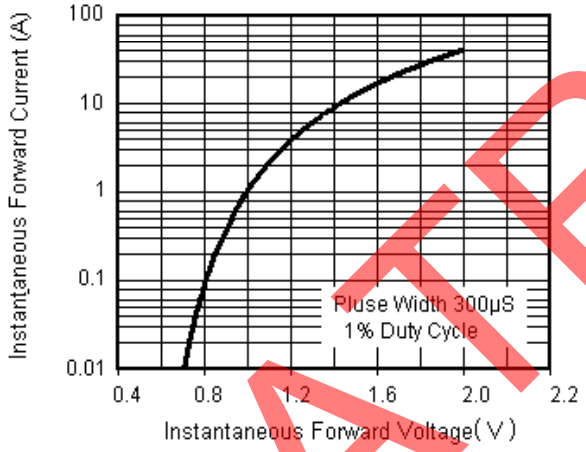
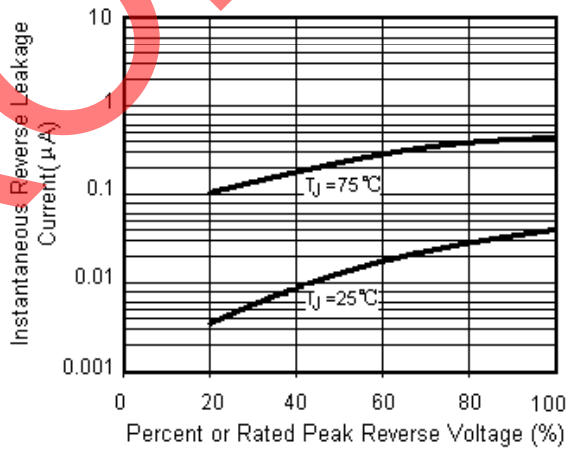
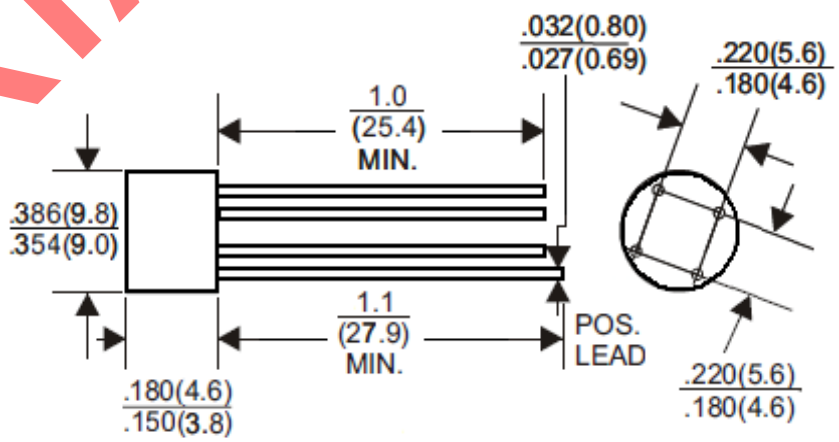


Fig.4 Typical Reverse Leakage Characteristics



Package Outline

WOG



Dimensions in inches and (millimeters)