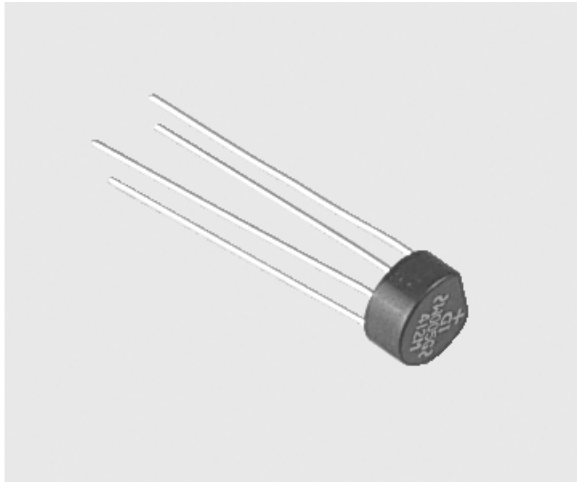


1W06, 1W10

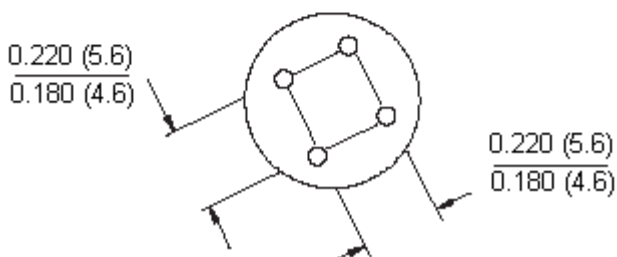
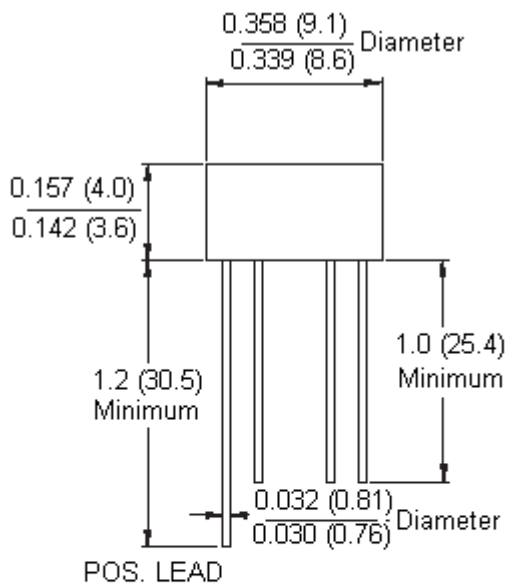
Single Phase Bridge Rectifiers



Features:

- Surge overload ratings to 30 ampere peak.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High temperature : 260°C/10 seconds/0.375" (9.5mm) lead soldering guaranteed length at 5lbs., (2.3kg) tension.

RB-15



Dimensions : Inches (Millimetres)

Mechanical Data :

Case : Moulded plastic.

Lead : Solder plated.

Polarity : As marked.



1W06, 1W10

Single Phase Bridge Rectifiers



Maximum Ratings and Electrical Characteristics:

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

Type Number	Symbol	1W06	1W10	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	600	1000	V
Maximum RMS voltage	V_{RMS}	420	700	
Maximum DC blocking voltage	V_{DC}	600	1000	
Maximum average forward rectified current at $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30		
Maximum instantaneous forward voltage at 1.0A.	V_F	1.0		V
Maximum DC reverse current at $T_A = 25^\circ\text{C}$ at rated DC blocking voltage at $T_A = 100^\circ\text{C}$	I_R	10	500	μA
Typical thermal resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	36	13	$^\circ\text{C/W}$
Operating temperature range	T_J	-55 to +125		$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150		

NOTE: Thermal Resistance from junction to ambient and from junction to lead mounted on PCB with 0.2" x 0.2" (5mm x 5mm) copper pads.

Ratings and Characteristic Curves

Figure 1 Maximum Non-Repetitive Forward Surge Current per Bridge Element

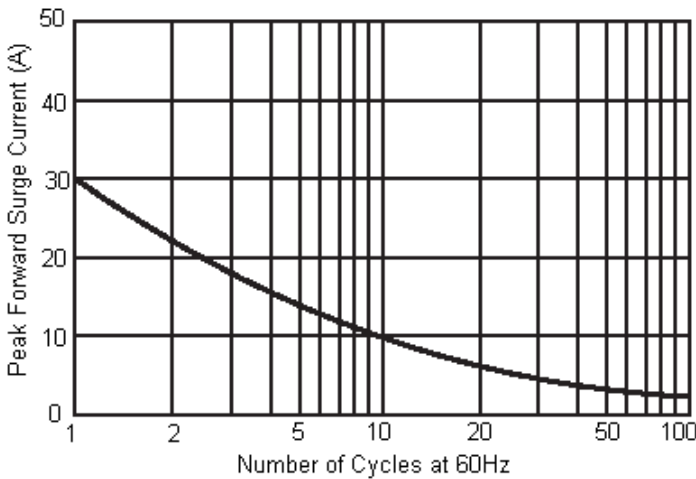
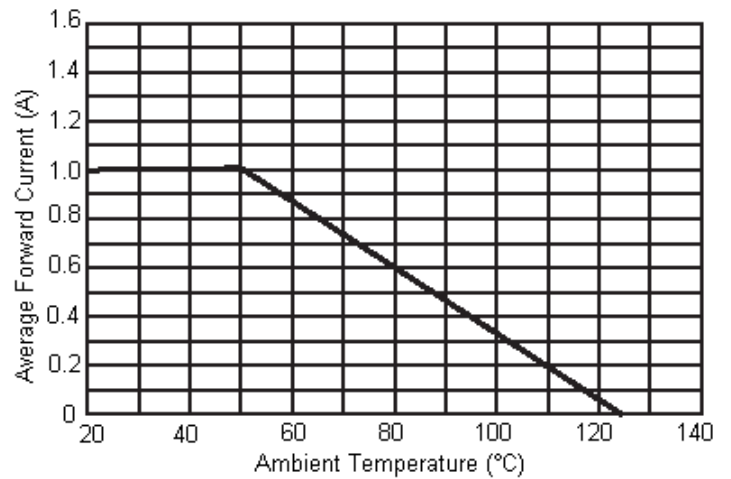


Figure 2 Maximum Forward Current Derating Curve



1W06, 1W10

Single Phase Bridge Rectifiers



Figure 3 Typical Instantaneous Forward Characteristics per Bridge Element

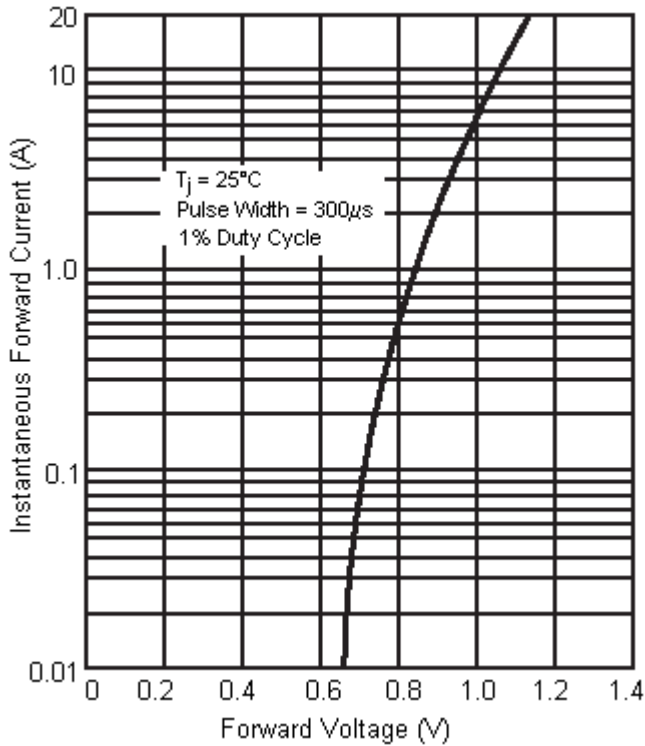
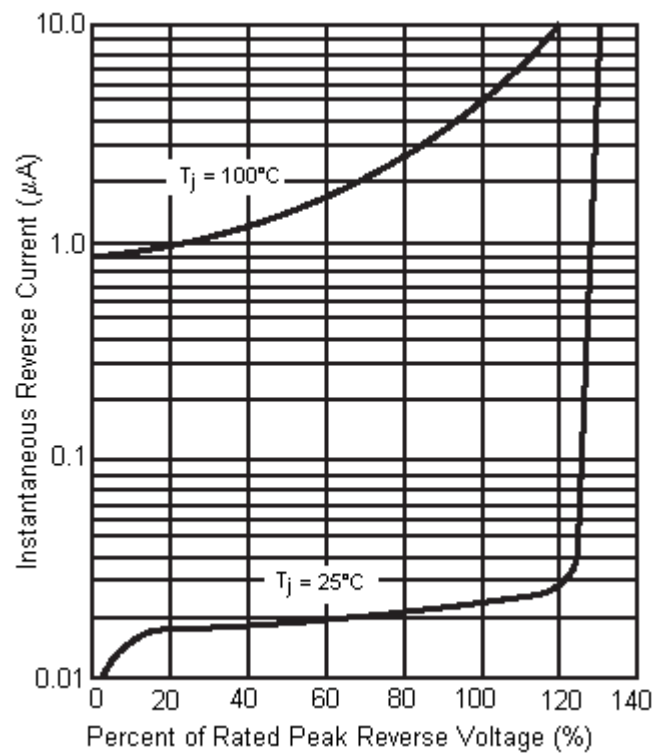


Figure 4 Typical Reverse Characteristics per Bridge Element



Part Number Table

VRRM (V)	Maximum DC Blocking Voltage (V_{DC})	Part Number
600	600	1W06
1000	1000	1W10

1W06, 1W10

Single Phase Bridge Rectifiers

Notes:

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