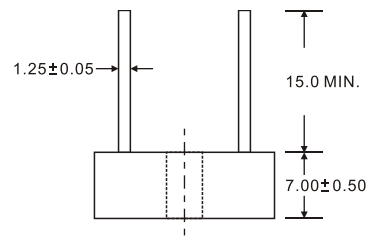
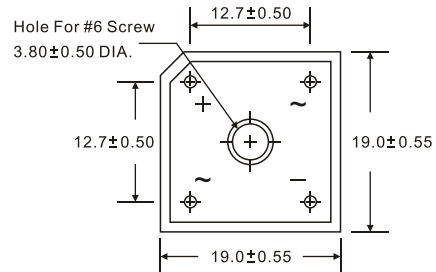


10 A Single-Phase Silicon Bridge Rectifier
 Rectifier Reverse Voltage 50 to 1000V



BR8



Dimensions in millimeters (1mm=0.0394")

Features

- This series is UL listed under the Recognized Component Index, file number E142814
- High temperature metallurgically bonded internal rectifiers
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C/ 10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

- Case: Void-free plastic package
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Mounting: Thru hole for #6 screw
- Mounting position: Any
- Weight: 0.24 ounce, 6.9 grams (approx)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

Parameter	Symbol	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Tc = 50 °C (1)	IF(AV)	10							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	150							A
Rating for fusing (t<8.3ms)	I ² t	93							A ² sec
Typical thermal resistance per element (2)	RthJA	9.4							°C/W
Typical junction capacitance per element(3)	Cj	55							pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

Parameter	Symbol	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	Unit
Maximum instantaneous forward voltage drop per leg at 5.0A	VF	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element TA =25°C TA =100°C	IR	10 1000							µA

- Notes:** (1) Mounted on metal chassis.
 (2) Non-repetitive, for t>1ms and < 8.3ms.
 (3) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Rating and Characteristic Curves ($T_A=25^\circ\text{C}$ Unless otherwise noted) BR1005 thru BR1010

Fig. 1 Derating Curve for Output Rectified Current

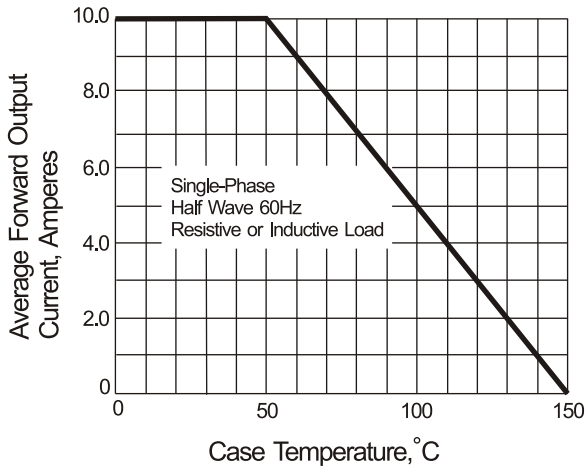


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

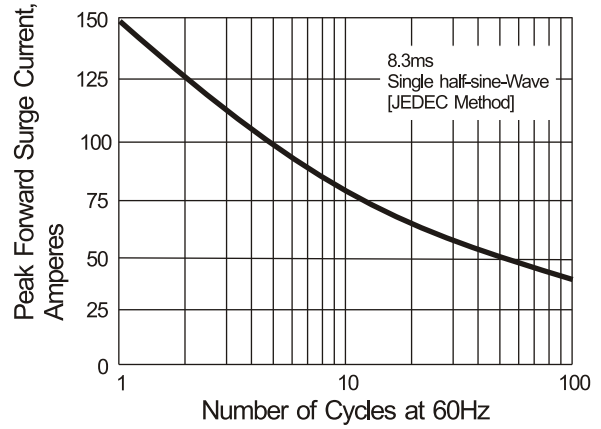


Fig. 3 Typical Instantaneous Forward Characteristics

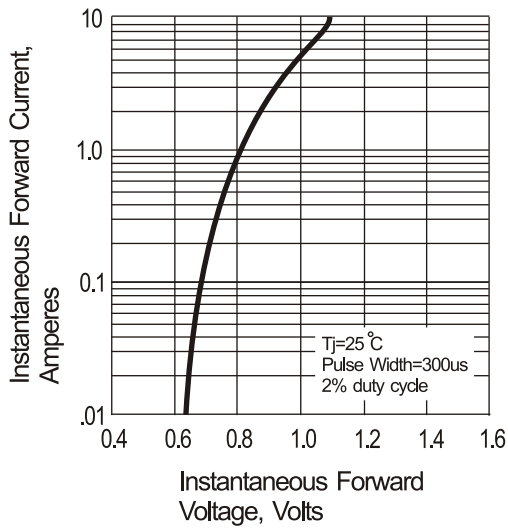


Fig. 4 Typical Reverse Characteristics

