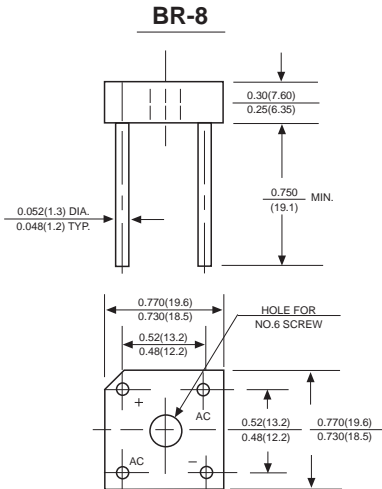




BR8005 THRU BR810

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds, at 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Mounting: Thru hole for #6 serew, 5in.-lbs. torque max.
Weight: 0.200 ounce, 5.62 grams

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 current derate by 20%.

MDD Catalog Number	SYMBOLS	BR8005	BR801	BR802	BR804	BR806	BR808	BR810	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output	Tc=50°C (Note 1)	I _(AV)	8.0						Amps
	Tc=100°C (Note 1)		6.0						
rectified current at	TA=50°C (Note 2)		6.0						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125.0							Amps
Rating for Fusing(t<8.3ms)	I ² t	64							A ² s
Maximum instantaneous forward voltage drop per bridge element at 4.0A	V _F	1.1							Volts
Maximum DC reverse current TA=25°C	I _R	10							μA
at rated DC blocking voltage TA=100°C		1.0							mA
Isolation voltage from case to leads	V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1)	R _{θJA}	6.0							°C/W
Operating junction temperature range	T _J	-55 to +125							°C
storage temperature range	T _{STG}	-55 to +150							°C

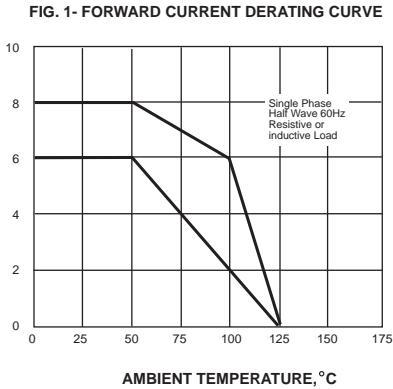
NOTES:

1. Unit mounted on 8.7" x 8.7" x 0.24" thick (22x22x0.6cm) Al. plate.
2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375"

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES BR8005 THRU BR810

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



PEAK FORWARD SURGE CURRENT,
AMPERES

