BR3500 - BR3512

PRV: 50 - 1200 Volts

lo: 35 Amperes

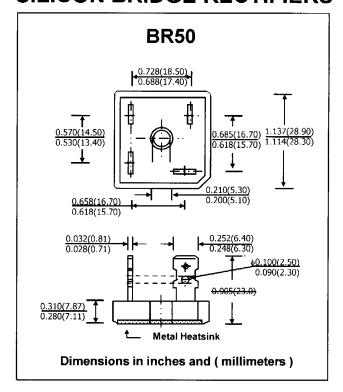
FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Rated isolation-voltage 2000 V_{AC}
- * Pb / RoHS Free

MECHANICAL DATA:

- Case: Molded plastic with heatsink integrally mounted in the bridge encapsulation
- * Epoxy: UL94V-0 rate flame retardant
- * Terminals : plated .25" (6.35 mm). Faston
- * Polarity : Polarity symbols marked on case
- * Mounting position: Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
- * Weight: 17.1 grams

TELEPHONE: (973) 376-2922 SILICON BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	BR 3500	BR 3501	BR 3502	BR 3504	BR 3506	BR 3508	BR 3510	BR 3512	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	٧
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	V
Maximum Average Forward Current Tc = 55°C	lf(AV)	35								Α
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	400								А
Current Squared Time at t < 8.3 ms.	l ² t	660								A ² S
Maximum Forward Voltage per Diode at IF = 17.5 A	VF	1.1								V
Maximum DC Reverse Current Ta = 25 °C	lR	10								μA
at Rated DC Blocking Voltage Ta = 100 °C	IR(H)	200 .								μΑ
Typical Thermal Resistance (Note 1)	RθJC	1.5								°C/W
Typical Thermal Resistance at Junction to Ambient	RθJA	10								°C
Operating Junction Temperature Range	TJ	- 40 to + 150								°C
Storage Temperature Range	Tstg	- 40 to + 150								°C

Note:

1. Thermal Resistance from junction to case with units mounted on a 7.5" x 3.5" x 4.6" (19cm.x 9cm.x 11.8cm.) Al.-Finned Plate

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

RATING AND CHARACTERISTIC CURVES (BR3500 - BR3512)

