GBPC25005 - GBPC2510

PRV : 50 - 1000 Volts lo : 25 Amperes

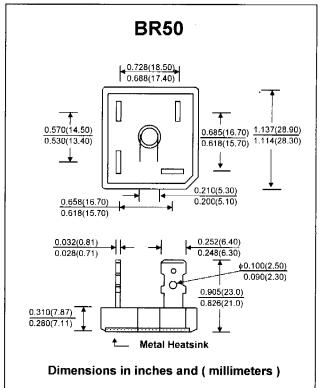
FEATURES:

- * Glass passivated junction chip
- * High surge current capability
- * High current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA:

- * Case : Molded plastic with heatsink integrally mounted in the bridge encapsulation
- * Epoxy : UL94V-O 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 GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise noted.

RATING	SYMBOL	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS Bridge Input 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 Current Tc = 50 °C (1)	I _{F(AV)}	25							Α
Peak Forward Surge Current Single Sine Wave Superimposed on Rated Load	I _{FSM}	300							А
Rating for fusing (non-repetitive, 1ms < t < 8.3 ms)	l ² t	375							A ² sec
Maximum Instantaneous Forwardat $I_F = 12.5 A$ Voltage Drop Per Diode	V _F	1.1							V
Maximum DC Reverse Current at Ta = 25 °C	1 _R	5							μA
Rated DC Blocking Voltage Per Diode Ta = 125 °C	I _{R(H)}	500							μA
Typical Junction Capacitance Per Diode (at 4 V, 1MHz)	CJ	300							рF
Typical Thermal Resistance form Junction to Case	R _{ejc}		1.9						°C/W
Operating Junction and Storage Temperature Range	T _{J,} T _{STG}			- (55 to + 1	50			°C

Note: (1) Unit mounted on 5 x 6 x 4.9" AL, Finned Plate.

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