

KBPC2510

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 25 Amperes

FEATURES

- * Metal case for Maximum Heat Dissipation
- * Surge overload ratings-400 Amperes
- * Low forward voltage drop

MECHANICAL DATA

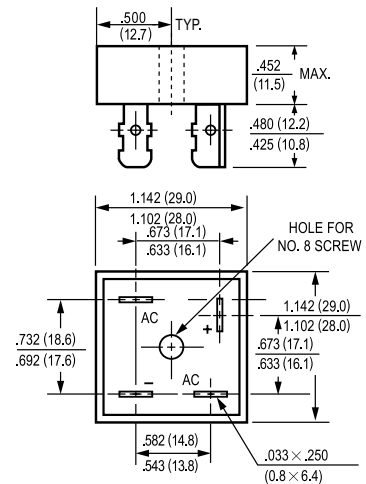
- * Case: Metal, electrically isolated
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Plated .25"(6.35mm) Faston lugs, solderable per MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 30 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



MB-25



Dimensions in inches and (millimeters)

		KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	
	SYMBOL	MB2505	MB251	MB252	MB254	MB256	MB258	MB2510	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Rectified Output Current at T _c = 55°C	I _o					25			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					400			Amps
Maximum Forward Voltage Drop per element at 12.5A DC	V _F					1.1			Volts
Maximum DC Reverse Current at Rated	I _R					10			uAmps
DC Blocking Voltage per element						500			
I ² t Rating for Fusing (t<8.3ms)	I ² t					374			A ² Sec
Typical Junction Capacitance (Note1)	C _J					300			pF
Typical Thermal Resistance (Note 2)	R _{θJC}					2.5			°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}					-55 to + 150			°C

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts
 2. Thermal Resistance from Junction to Case per leg.

