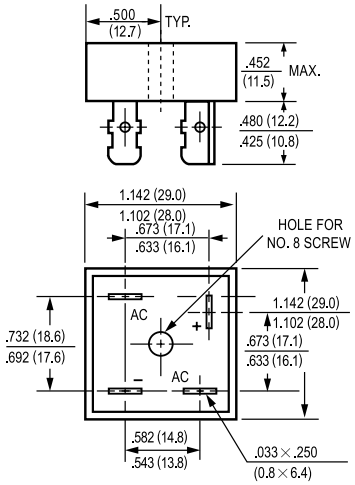
MECHANICAL DATA

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

FEATURES

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive load.
For capacitate load, derate current by 20%

PARAMETER		SYMBOL	KBPC25005 MB2505	KBPC2501 MB251	KBPC2502 MB252	KBPC2504 MB254	KBPC2506 MB256	KBPC2508 MB258	KBPC2510 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 Current at T_C = 55		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 DC Blocking Voltage	@T_A = 25	I_R	10							uAmps
	@T_A = 100		500							
I^2t Rating for Fusing (t < 8.3ms)		I^2t	374							A^2Sec
Typical Junction Capacitance (Note 1)		C_J	300							pF
Typical Thermal Resistance (Note 2)		R_{Jc}	2.5							/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150							

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

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

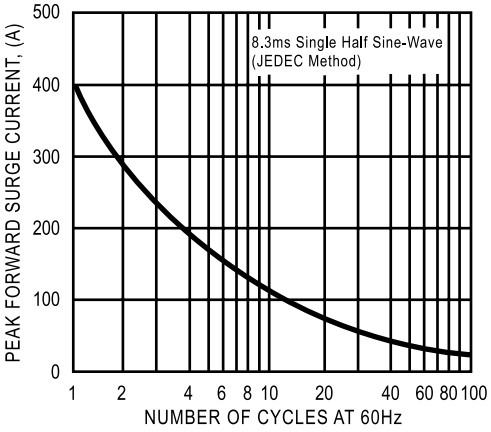


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

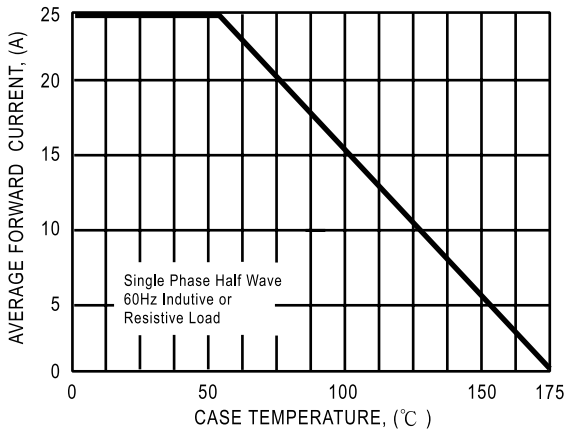


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

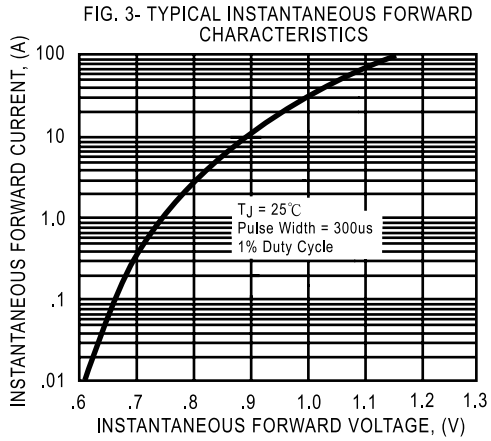


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS