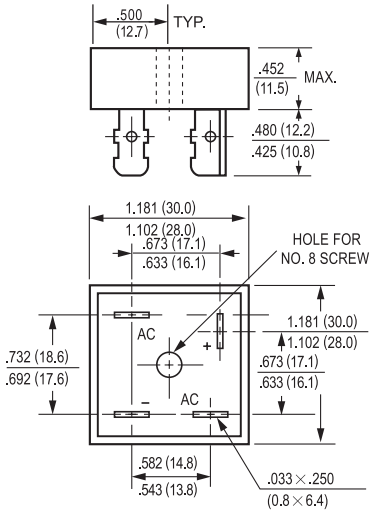
MECHANICAL DATA

* Case: Metal case, 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

FEATURES

* Metal case for Maximum Heat Dissipation
* Surge overload ratings-300 Amperes
* Low forward voltage drop



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%.

PARAMETER		SYMBOL	KBPC15005 MB1505	KBPC1501 MB151	KBPC1502 MB152	KBPC1504 MB154	KBPC1506 MB156	KBPC1508 MB158	KBPC1510 MB1510	UNITS
Maximum Recurrent 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 Rectified Current at T_C = 55℃		I_O	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method)		I_{FSM}	300							Amps
Maximum Forward Voltage Drop per element at 7.5A DC		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25℃	I_R	10							uAmps
	@TA = 100℃		500							
I^2t Rating for Fusing (t < 8.3ms)		I^2t	374							A^2Sec
Typical Junction Capacitance (Note 1)		C_J	40							pF
Typical Thermal Resistance (Note 2)		$R\theta_{JA}$	19							℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +175							℃

Notes: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts
2.Thermal Resistance from Junction to Ambient and from Junction to lead mounted on PCB with 0.47" x0.47" (12x12mm) copper pads .

Wing Shing Computer Components Co., (H.K.)Ltd. Tel:(852)2341 9276 Fax:(852)2797 8153
Homepage: http://www.wingshing.com E-mail: wsccltd@hkstar.com

RATING AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

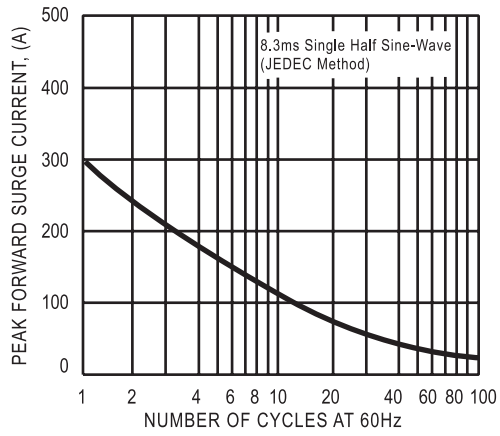


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

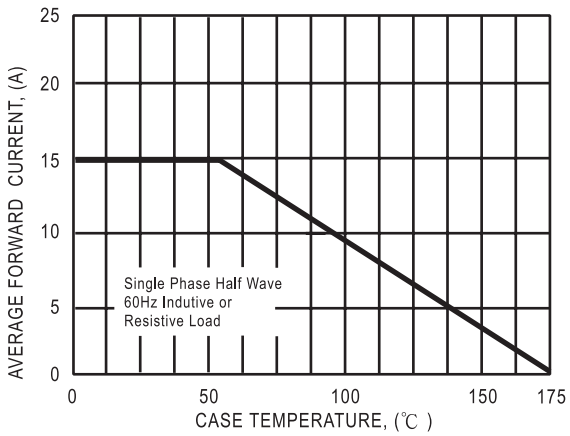


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

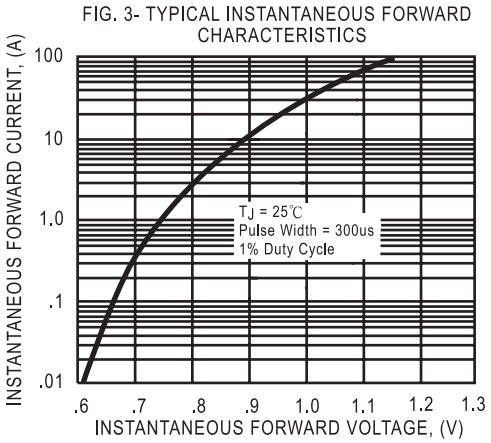
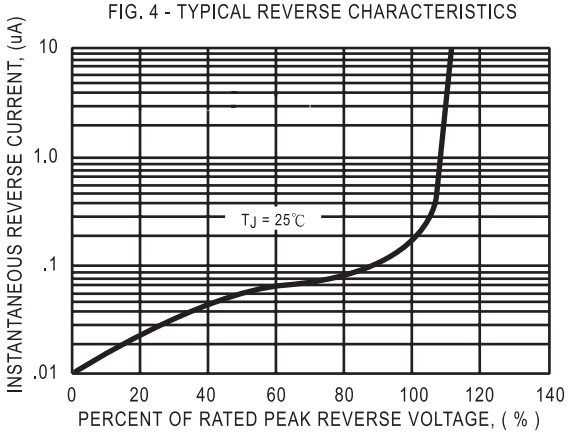


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



Wing Shing Computer Components Co., (H.K.)Ltd. Tel:(852)2341 9276 Fax:(852)2797 8153
Homepage: http://www.wingshing.com E-mail: wsccltd@hkstar.com