

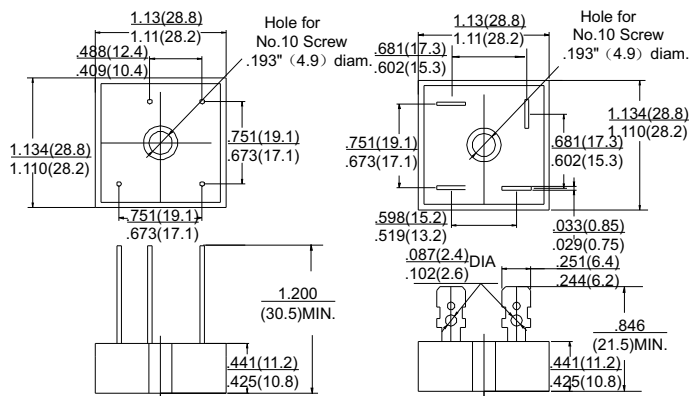
FEATURES

- UL Recognized
- Current 25 Amps
- Voltage Range 50V ~ 1000V
- Glass passivated chip junction
- High surge forward current capability
- KBPC available in 15A, 25A, 35A, 50A
- Electrically isolated metal case for maximum heat dissipation

MECHANICAL DATA

- Mounted in the bridge encapsulation
- Mounting through hole for No. 10 screw
- Mounting Torque: recommend 5Kg • cm
- Polarity: As marked

METAL



**Suffix W
(For Wire Leads)**

**No Suffix
(For 0.25\"/>**

Dimensions in inches and millimeters

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

($T_A = 25^\circ\text{C}$ Unless otherwise noted)

Parameter	Symbol	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_c = 55^\circ\text{C}$ (With Heat Sink)	I_O (AV)	25							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	400							A
Forward Voltage (Per Element) @ $I_F = 7.5\text{A}$	VFM	1.1							V
I^2t Rating for fusing ($t < 8.3\text{ms}$) (Note 1)	I^2t	375							A^2S
Dielectric Strength (AC 1 minute)	Vdis	2.5							KV
Maximum DC Reverse Current at rated DC Blocking Voltage	I_{RRM}	10							A
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.3							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 ~ +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150							$^\circ\text{C}$

Note: 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms.
 2. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM CURRENT DERATING CURVE

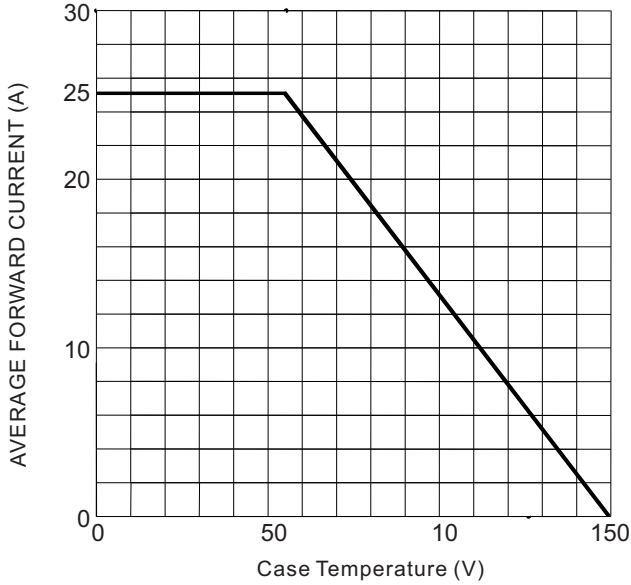


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

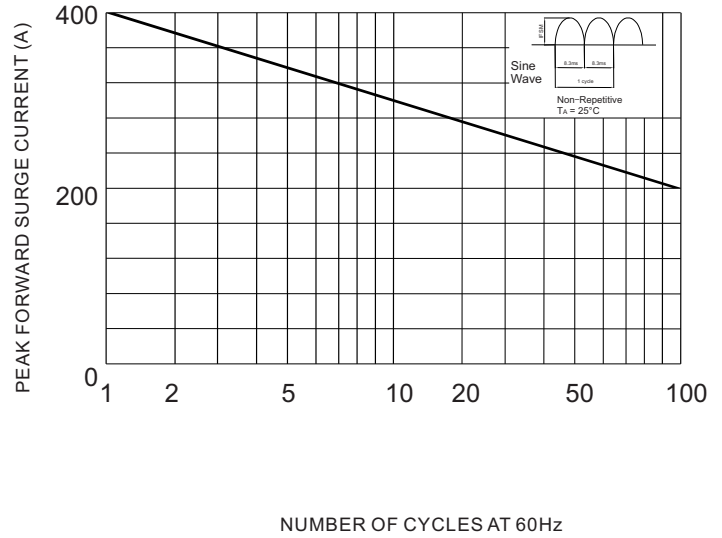


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

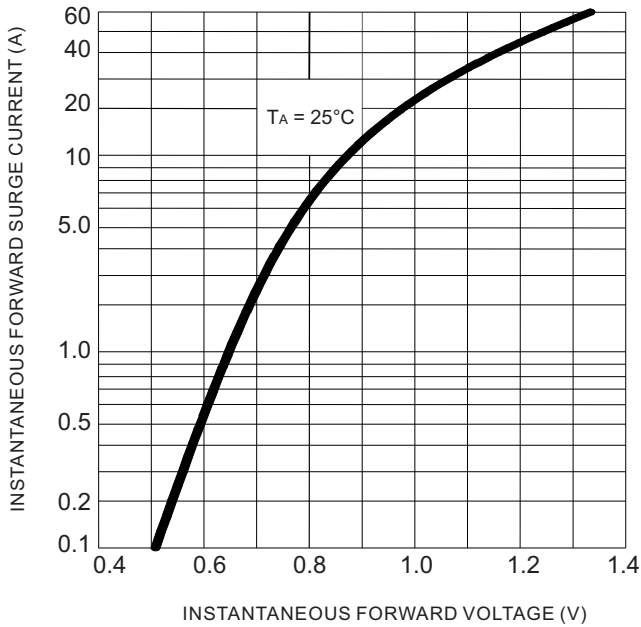


FIG.4-TYPICAL REVERSE CHARACTERISTICS

