

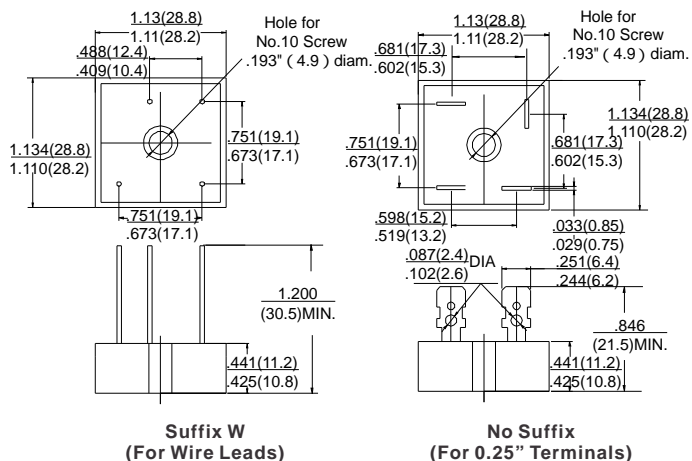
FEATURES

- UL Recognized
- Current 15 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



Dimensions in inches and millimeters

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	KBPC 005	KBPC 01	KBPC 02	KBPC 04	KBPC 06	KBPC 08	KBPC 10	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Rectified Current @ $T_c = 55^\circ\text{C}$ (With Heat Sink)	$I_O (AV)$	15							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	300							A
Forward Voltage (Per Element) @ $I_F = 7.5A$	V_{FM}	1.1							V
$I^2 t$ Rating for fusing ($t < 8.3ms$) (Note 1)	$I^2 t$	375							$A^2 S$
Dielectric Strength (AC 1 minute)	V_{dis}	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							$^\circ\text{C} / W$
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

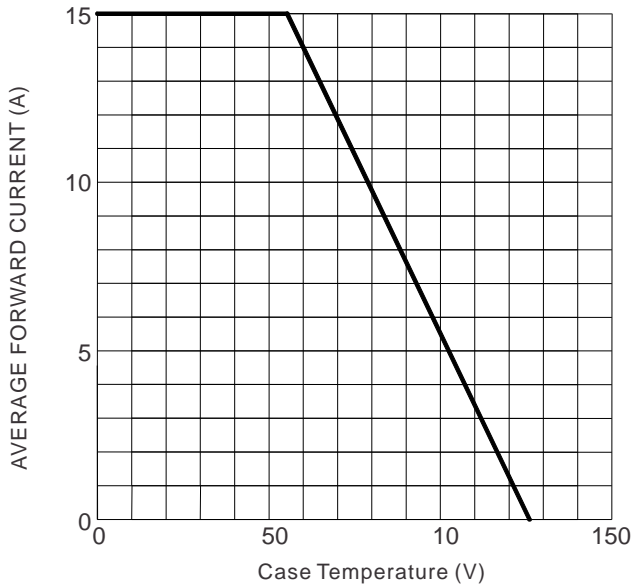


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

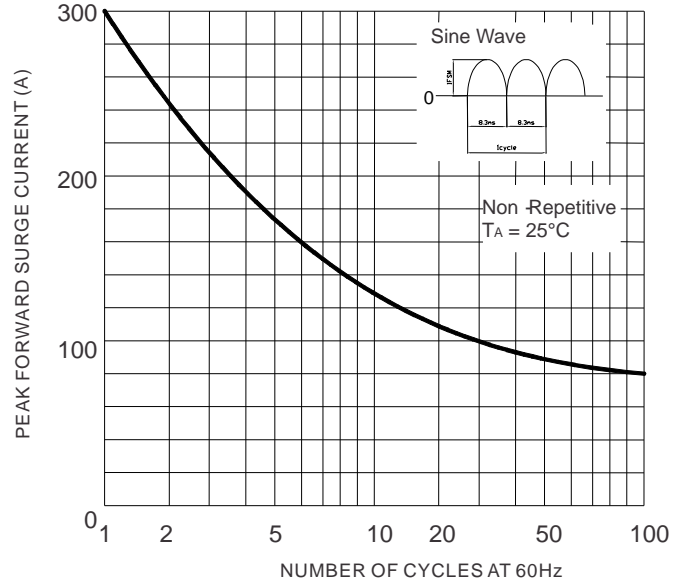


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

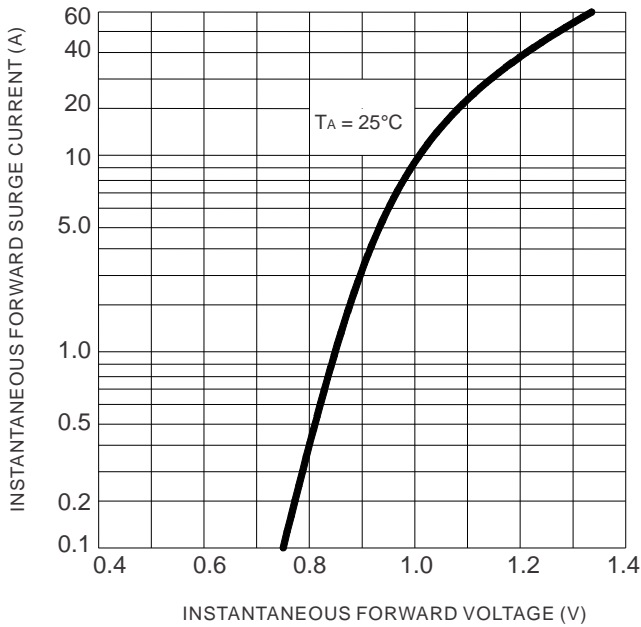


FIG.4-TYPICAL REVERSE CHARACTERISTICS

