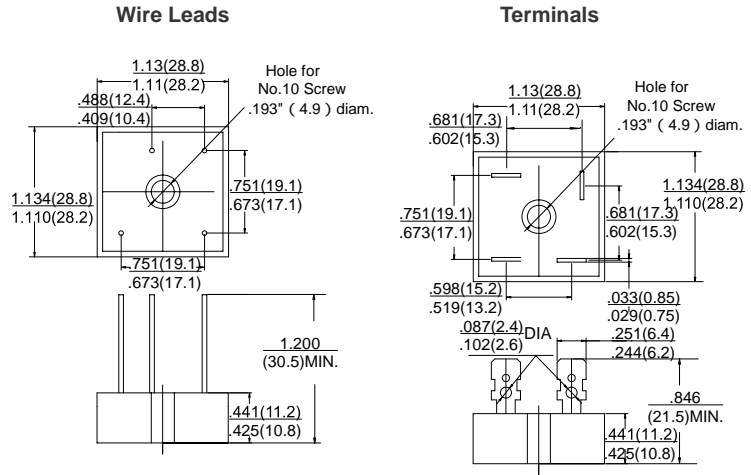


**FEATURES**

- UL File# E230084
- Current 35 Amps
- Voltage Range 50V ~ 1000V
- Low Reverse Leakage
- High Surge Forward Current Capability
- General Purpose Single Phase Bridge
- KBPC available in 15A, 25A, 35A, 50A

**MECHANICAL DATA**

- Case: Metal
- Terminals: Plated 0.25" (6.35mm)
- Polarity: As Marked
- Mounting: Hole for #10 screw, 20in.-lbs. torque max.
- Weight: 1.02 ounce, 29 grams



**Metal Case**

Dimensions in inches and millimeters

**MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS**

(T<sub>A</sub> = 25°C Unless otherwise noted)

Parameter	Symbol	KBPC35 005	KBPC35 01	KBPC35 02	KBPC35 04	KBPC35 06	KBPC35 08	KBPC35 10	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>c</sub> = 55°C (With Heat Sink)	I <sub>O (AV)</sub>	35							A
Peak Forward Surge (Non-Repetitive) Current 8.3ms single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	400							A
I <sup>2</sup> t Rating for fusing ( t < 8.3ms) (Note 1)	I <sup>2</sup> t	660							A <sup>2</sup> S
Dielectric Strength (AC 1 minute)	V <sub>dis</sub>	2.5							KV
Peak Forward Voltage	V <sub>FM</sub>	1.1							V
Maximum DC Reverse Current at rated DC Blocking Voltage	I <sub>RRM</sub>	10							A
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	1.0							°C / W
Operating Temperature Range	T <sub>J</sub>	-55 ~ +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150							°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

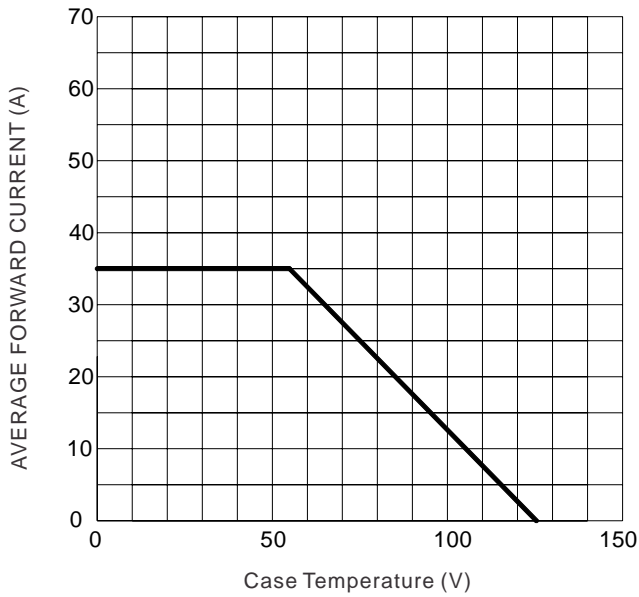


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

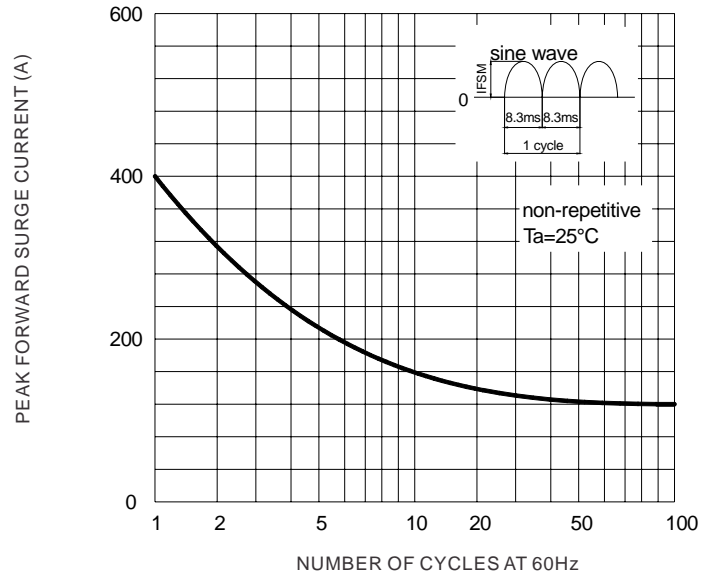


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

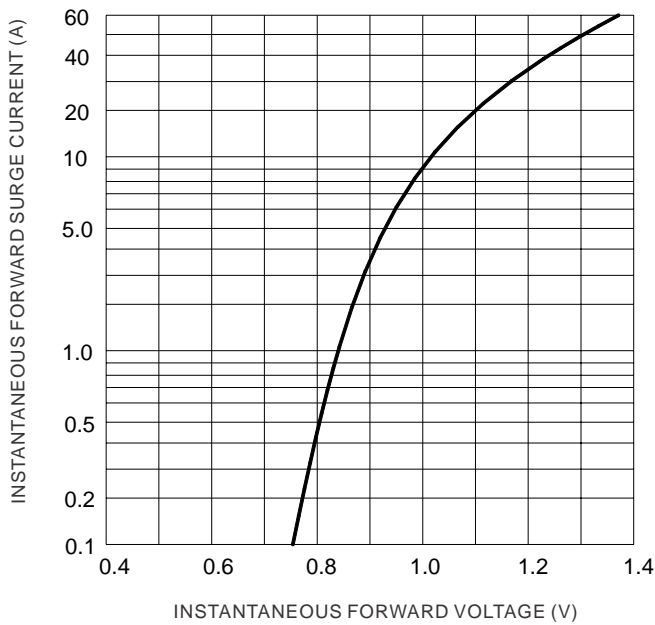


FIG.4-TYPICAL REVERSE CHARACTERISTICS

