

**25A HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIER**

**Voltage - 600 to 1600 V**

**Forward Current – 25 A**

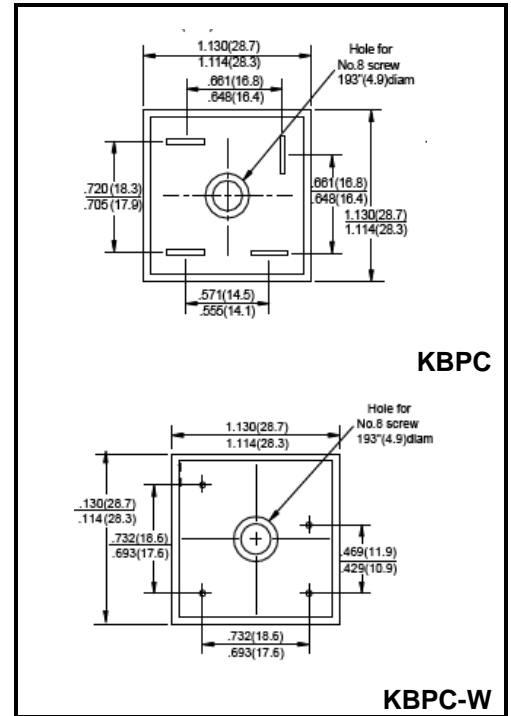
**FEATURES**

- ◆ High current capability
- ◆ Low forward voltage drop
- ◆ Glass Passivated Chip Junction
- ◆ Low power loss, high efficiency
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives



**MECHANICAL DATA**

- ◆ Case: KBPC, KBPC-W
- ◆ Terminals: Solderable per MIL-STD-202, Method 208
- ◆ Approx. Weight: KBPC 31.6g , KBPC-W 28.5g



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	KBPC2506 (W)	KBPC2508 (W)	KBPC2510 (W)	KBPC2512 (W)	KBPC2516 (W)	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	800	1000	1200	1600	V
Maximum RMS voltage	$V_{RMS}$	420	560	700	840	980	V
Maximum DC Blocking Voltage	$V_{DC}$	600	800	1000	1200	1600	V
Maximum Average Forward Rectified Current at TC=60°C	$I_{(AV)}$	25					A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	400					A
Maximum Forward Voltage at 12.5A DC and 25°C	$V_F$	1.1					V
Maximum Reverse Current at TA=25°C at Rated DC Blocking Voltage TA=125°C	$I_R$	10 1.0					$\mu A$ mA
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150					°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Thermal Resistance Junction to Case, Lead and Ambient.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

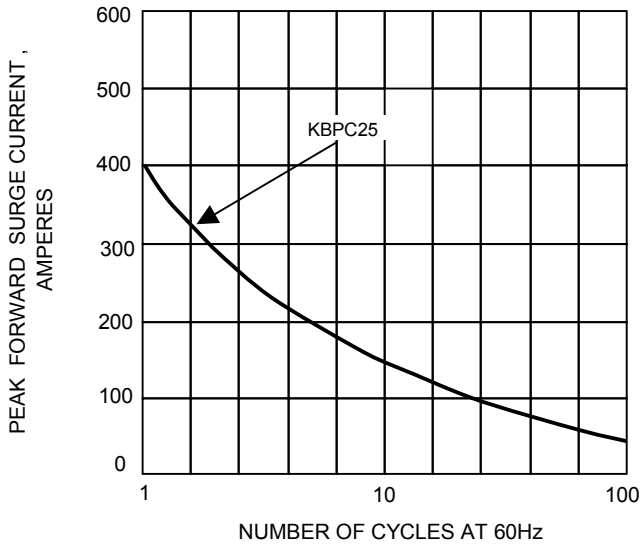


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

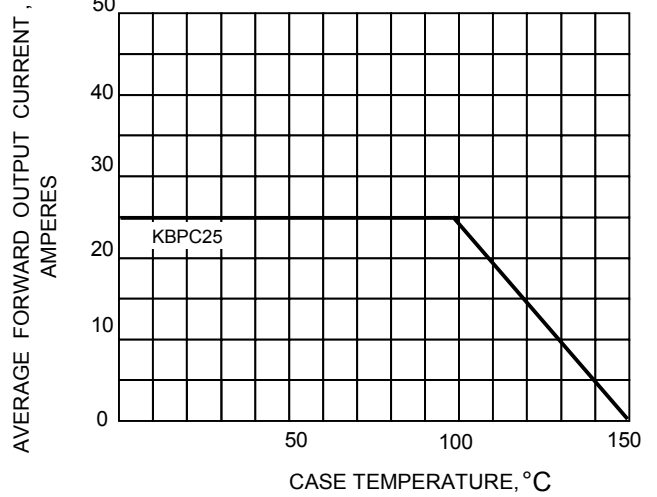


FIG.3-TYPICAL FORWARD CHARACTERISTICS

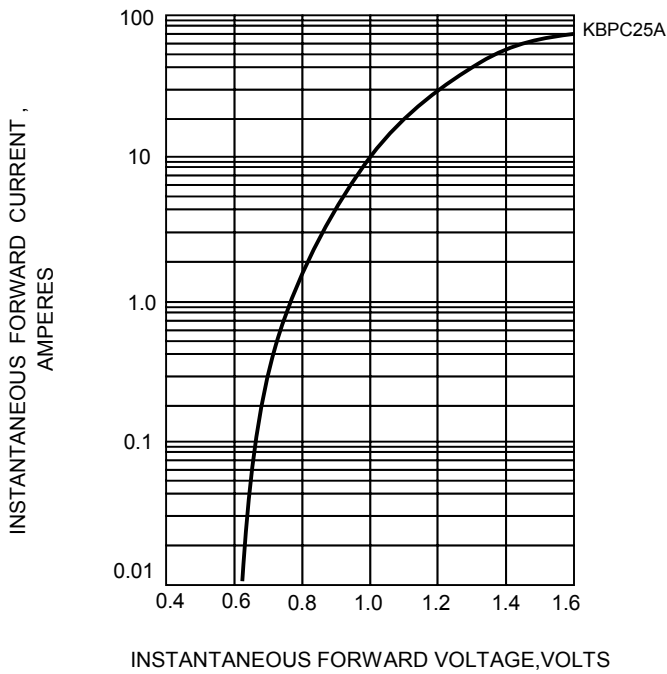
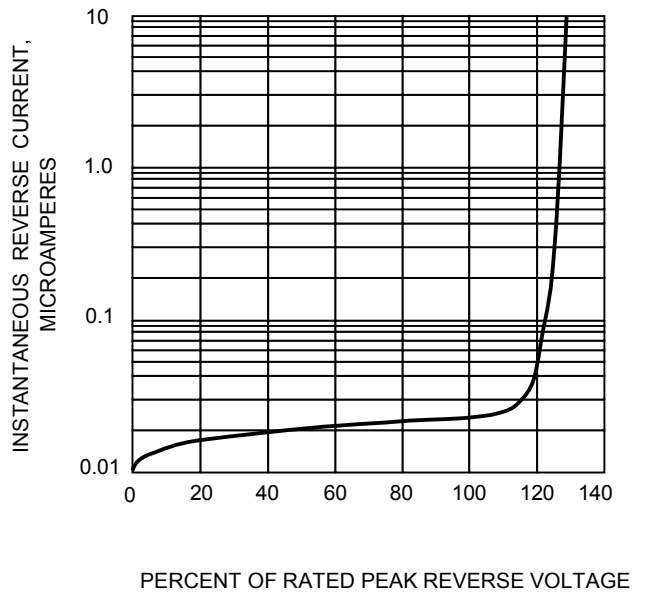


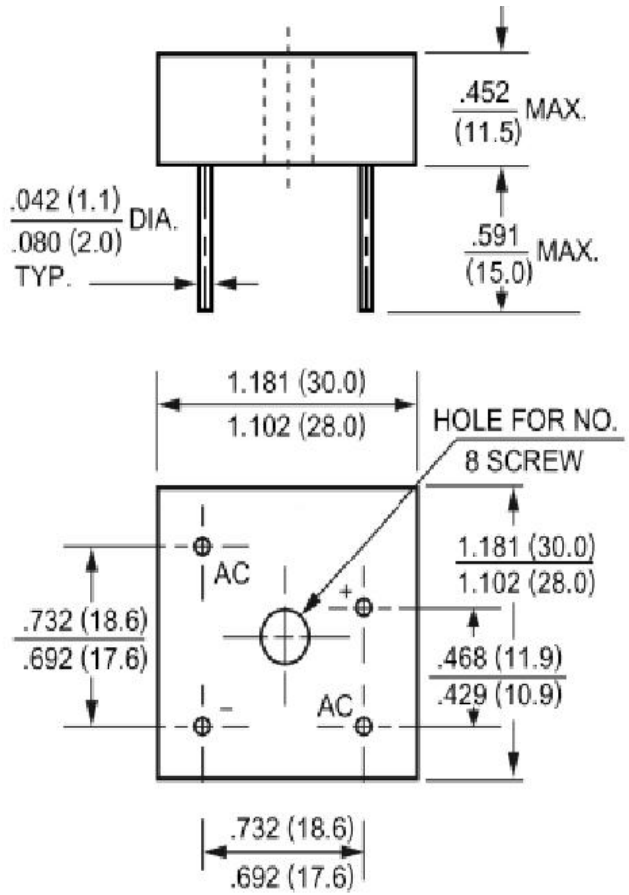
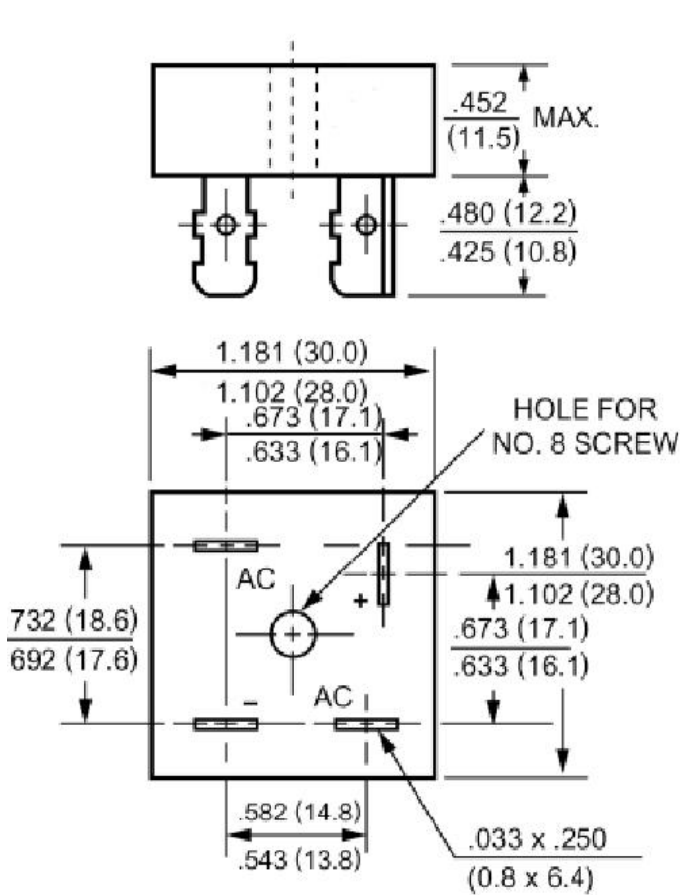
FIG.4-TYPICAL REVERSE CHARACTERISTICS



Package Outline

KBPC

KBPC-W



Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
KBPC	BOX	50	EIA-481-1
KBPC-W	BOX	50	EIA-481-1

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