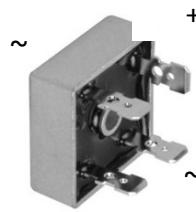
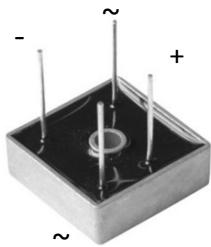


Features

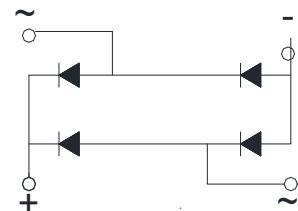
- Surge overload rating - 200~400A peak
- High surge current capability
- Low thermal resistance
- Low forward voltage drop
- Mounting position: Any
- Electrically isolated base - 1800V
- Solderable 0.25" FASTON terminals
- Solder dip 275 °C max. 7 s, per JESD 22-B106
- Terminals: Tin plated leads,
Solderable perJ-STD-002 and JESD22-B102,
Suffix letter "W" added to indicate wire leads(e.g. KBPC1510W)



KBPC



KBPC-W



Schematic Diagram

Maximum Ratings and Electrical Characteristics

T_A=25°C Unless otherwise specified

Parameter	Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
		15005	1501	1502	1504	1506	1508	1510	
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum Instantaneous Forward Voltage Drop per Diode (I _{FM} =7.5A)	V _{FM}				1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode (V _{RM} =V _{RRM})	I _{RRM}				10				µA
Average Rectified Output Current @60Hz Sine Wave, R-load, With Heatsink, T _c =55°C	I _O				15				A
Surge(Non-repetitive) Forward Current @60Hz Half-sine Wave, 1 cycle, T _A =25°C	I _{FSM}				300				A
Current Squared Time @1ms≤t≤8.3ms T _J =25°C, Rating of Per Diode	I ² t				375				A ² S
Storage Temperature	T _{STG}				-55 to +150				°C
Junction Temperature	T _J				-55 to +150				°C
Dielectric Strength, Terminals to Case, AC 1 minute	V _{dis}				2.5				kV
Thermal Resistance, Between Junction and Case, With Heatsink	R _{θJ-C}				3.4				°C/W

Ratings and Characteristics Curves

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

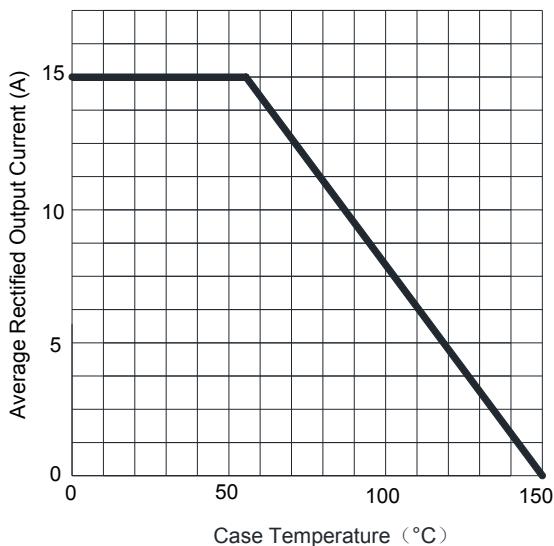


Figure 1. $\text{Io}-\text{T}_c$ Curve

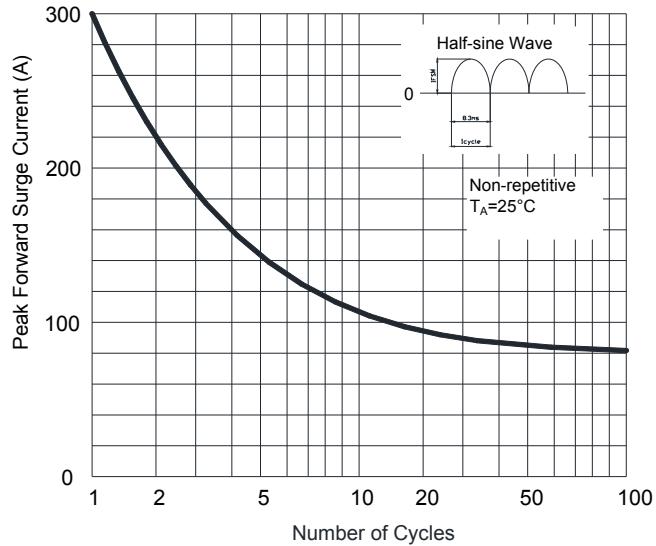


Figure 2. Surge Forward Current Capability

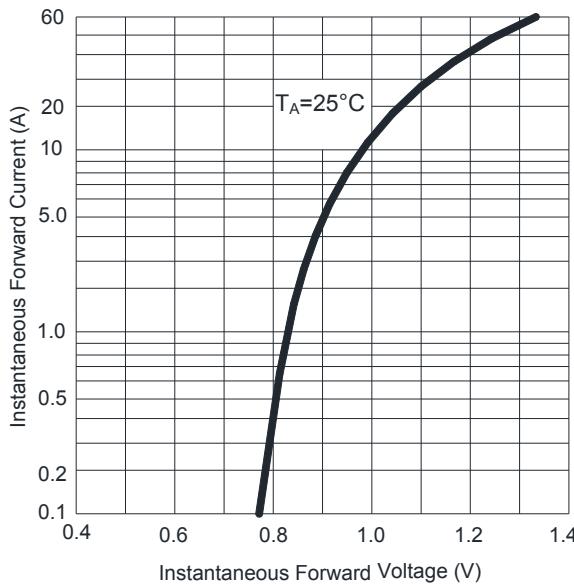


Figure 3. Instantaneous Forward Voltage

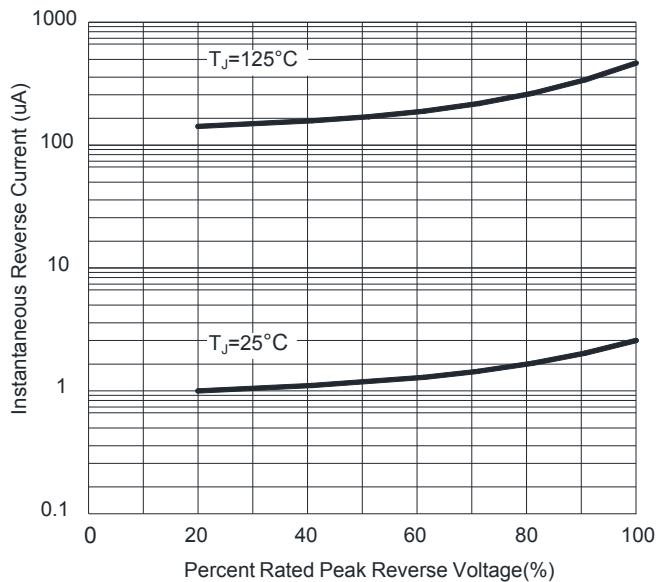
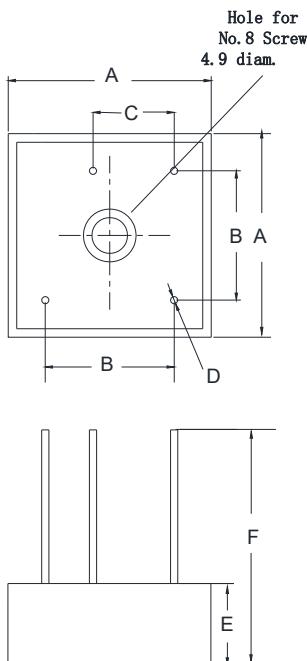


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions

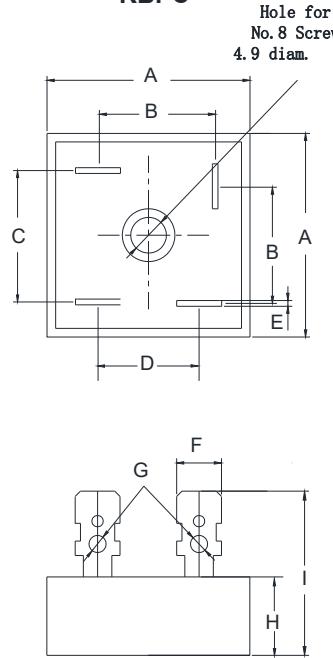
KBPC-W



KBPC-W		
Dim	Min	Max
A	28.2	28.8
B	17.1	19.1
C	10.4	12.4
D	0.95	1.05
E	10.8	11.2
F	30	

Dimensions in millimeters

KBPC



KBPC		
Dim	Min	Max
A	28.2	28.8
B	15.3	17.3
C	17.1	19.1
D	13.2	15.2
E	0.75	0.85
F	6.2	6.4
G	2.3	2.6
H	10.8	11.2
I	19	

Dimensions in millimeters