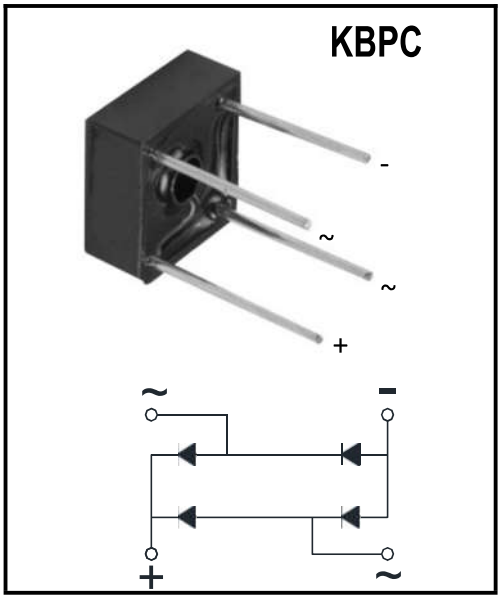
Bridge Rectifiers

Voltage - 50 to 1000 V
Forward Current – 15 A



FEATURES

- UL recognition, file #E230084
- Suitable for printed circuit board or chassis mounting
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7s, per JESD 22-B106

MECHANICAL DATA

- Package: KBPC8
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER		SYMBOL	KBPC15005	KBPC1501	KBPC1502	KBPC1504	KBPC1506	KBPC1508	KBPC1510	Units
Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60Hz sine wave, R-load, Ta=40℃		I_O	15							A
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃		I_{FSM}	220							A
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		I^2t	200							A^2S
Storage Temperature		T_{stg}	-55 ~+150							℃
Junction Temperature		T_j	-55 ~+150							℃
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
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	17							℃/W

Typical Characteristics

FIG1:Io-Tc Curve

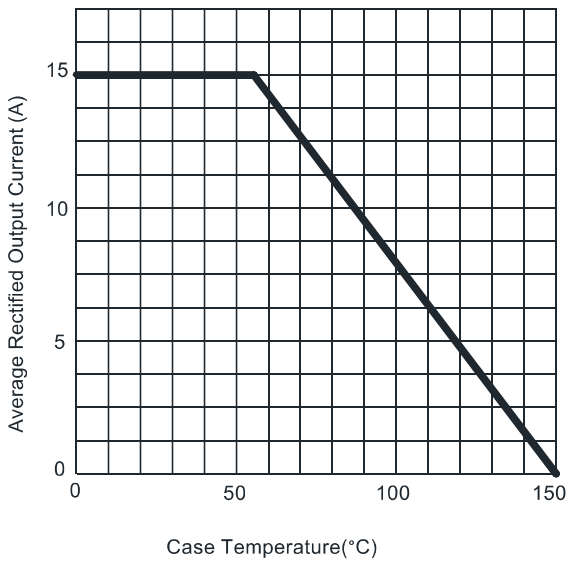


FIG2:Surge Forward Current Capability

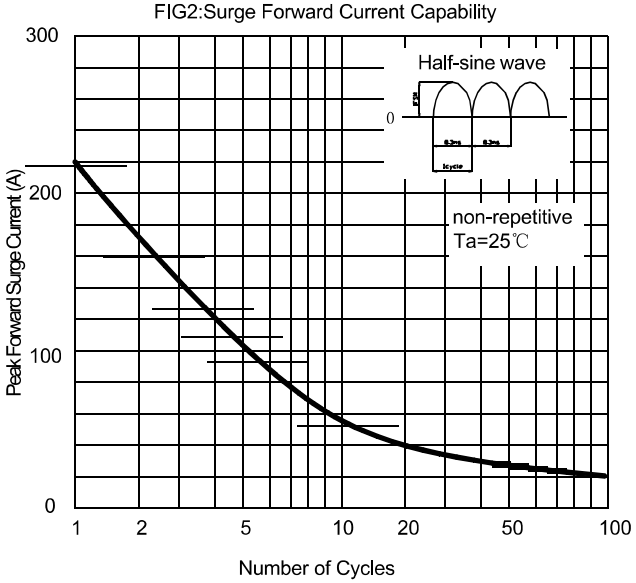


FIG3:Instantaneous Forward Voltage

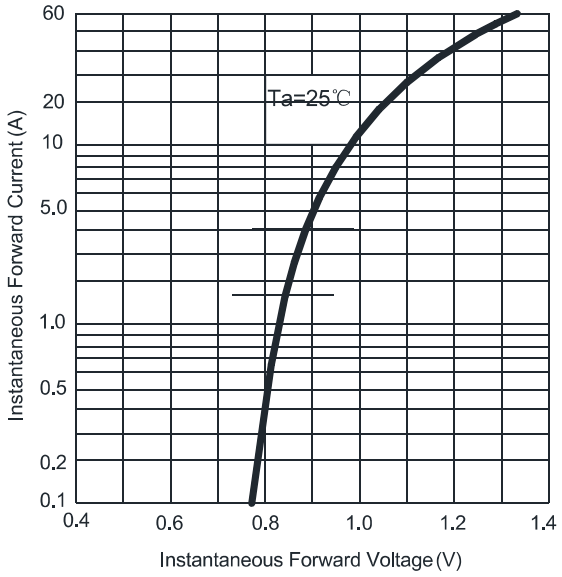
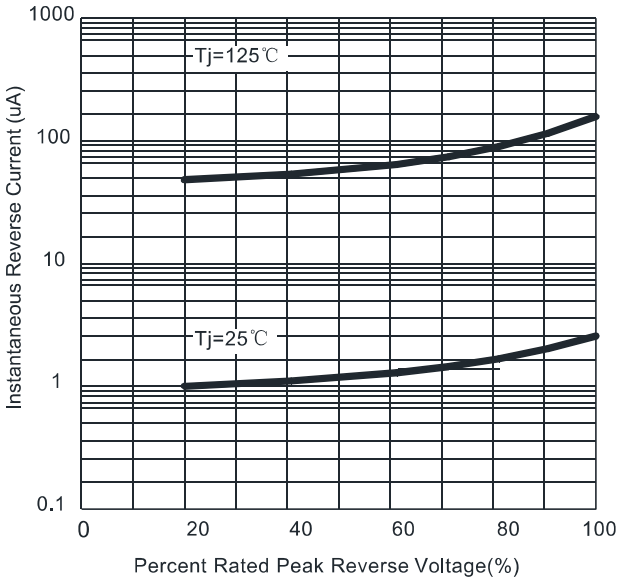
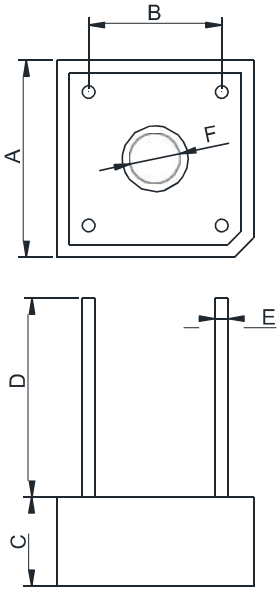


FIG4:Typical Reverse Characteristics



Package Information

KBPC



KBPC		
Dim	Min	Max
A	18.54	19.58
B	12.2	13.2
C	6.35	7.6
D	15.0	/
E	1.2	1.3
F	3.8	4.2

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
KBPC	BOX	200	EIA-481-1