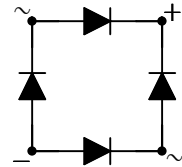
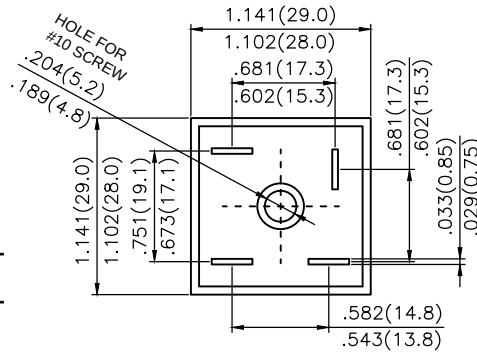


Features

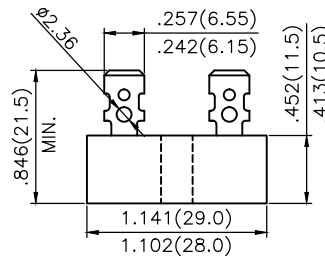
- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

KBPC



Mechanical Data

- Case: KBPC, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _c =90°C	I _{F(AV)}	25.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	350							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	373.5							A ² s
Forward Voltage per element @I _F =12.5A	V _{FM}	1.1							V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R	5.0 500							uA
Typical Junction Capacitance per leg (Note 2)	C _J	300							pF
Typical Thermal Resistance per leg	R _{θJL}	1.4							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150							°C

Note:1. Mounted on 35mm x 35mm x 17mm Al Plate Heatsink.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

