

KBPC15005 THRU KBPC1510

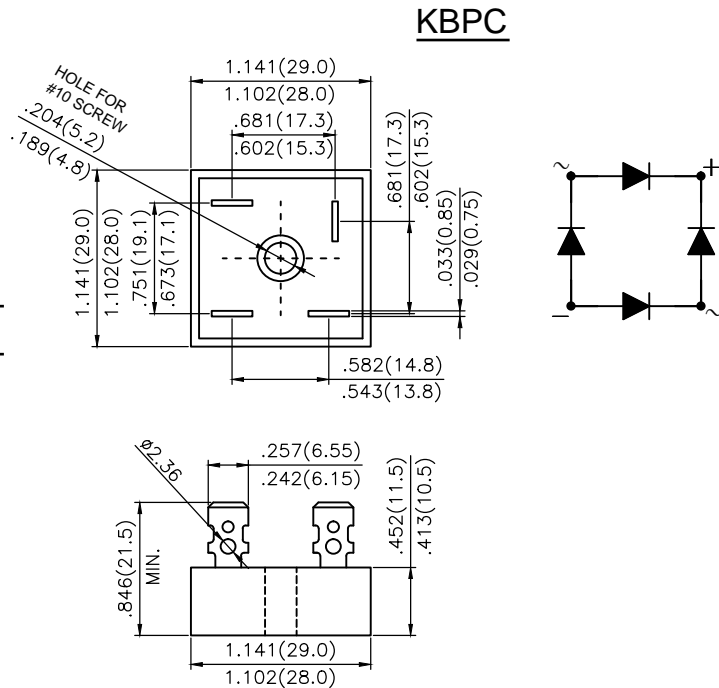
SINGLE PHASE 15.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

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

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



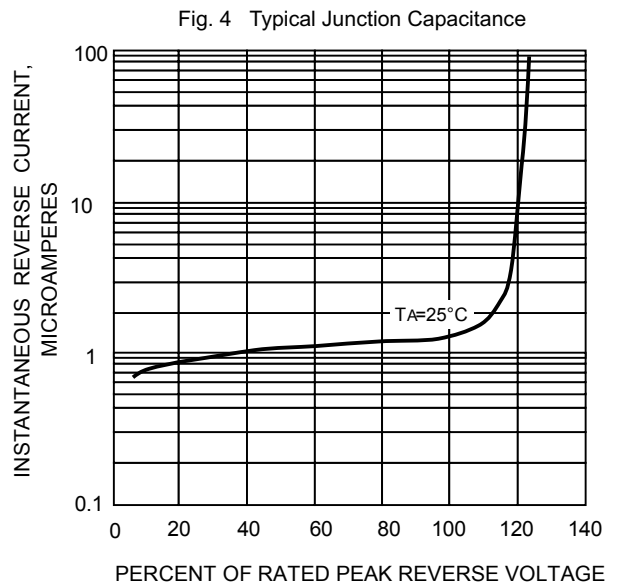
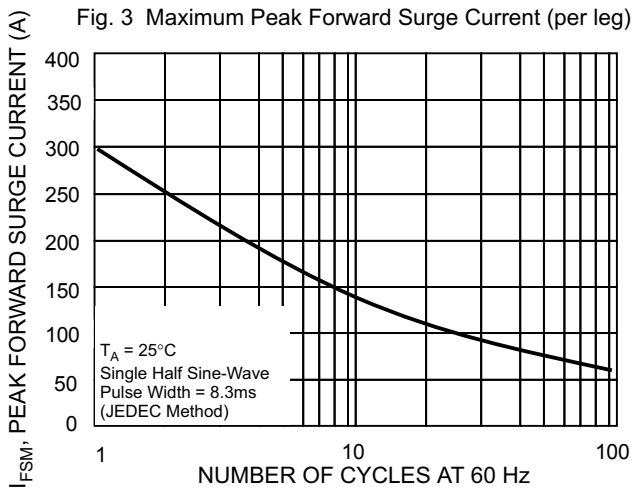
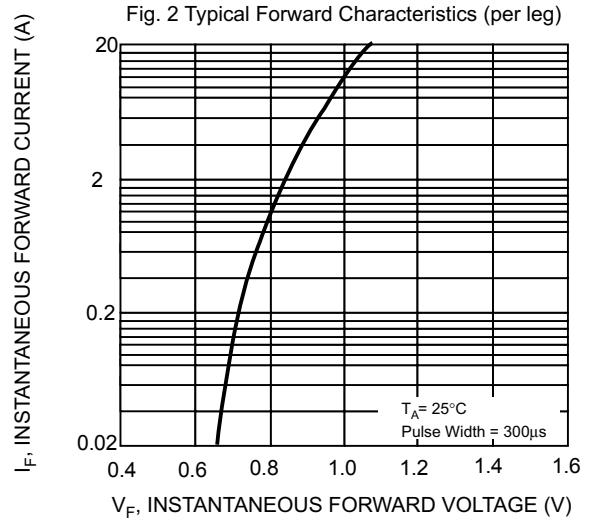
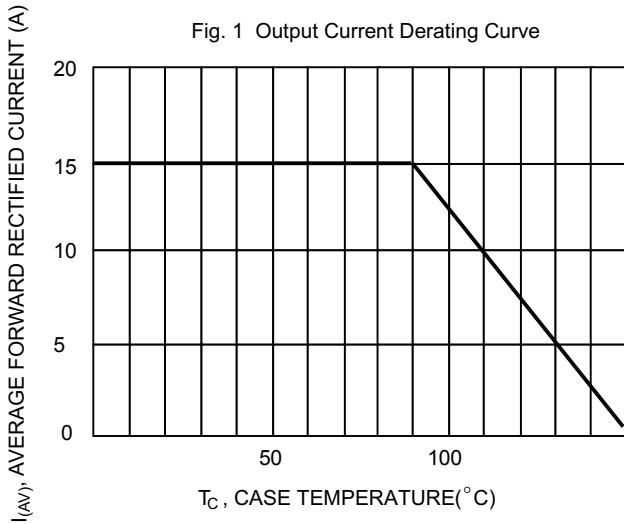
dimensions in inches and (millimeters)

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 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	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)@ $T_c=90^\circ C$	$I_F(AV)$	15.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	373.5							A ² s
Forward Voltage per element @ $I_F=7.5A$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 500							uA
Typical Junction Capacitance per leg (Note 2)	C_J	300							pF
Typical Thermal Resistance per leg	$R_{\theta JC}$	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.



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