CURRENT 10.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

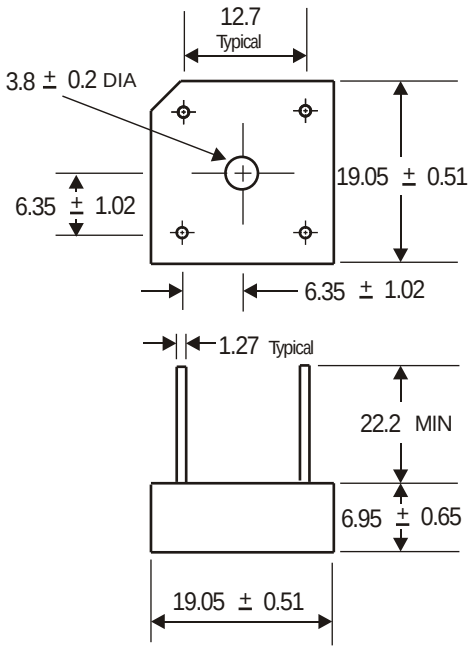
KBPC1001 THRU KBPC1010

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- High temperature metallurgically bonded internal rectifiers
- Typical I_R less than .1μA
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265℃/10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Voil-free plastic package
Terminals: Plated leads solderable per MIL-STD-202, Method 208
Mounting: Thru hole for #6 screw
Mounting position: Any
Weight: 0.24 ounce, 6.9 grams (approx)



Dimensions in millimeters(1mm =0.0394")

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 1000	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @T_A = 50°C	I_O	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							A
Forward Voltage (per element) @I_F = 5.0A	V_{FM}	1.1							V
Peak Reverse Current @T_C = 25°C At Rated DC Blocking Voltage @T_C = 125°C	I_{RM}	10 1.0							μA mA
Typical Junction Capacitance (Note 1)	C_j	300							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	6.3							K/W
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500							V
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							°C

*** Glass passivated forms are available upon request.**

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance junction to case per element mounted on heatsink.

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Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

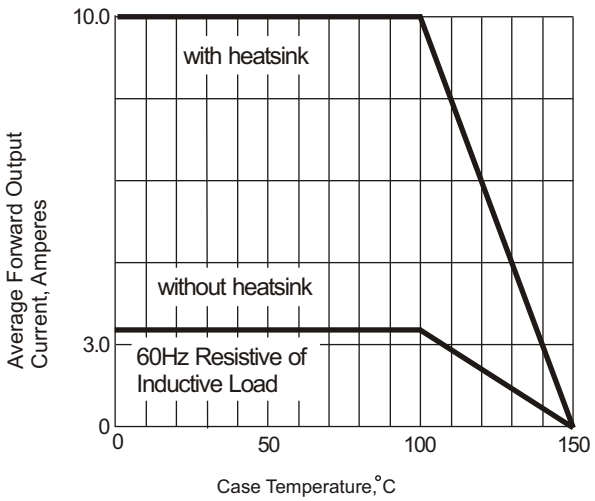

Fig. 2 Typical Forward Characteristics (per element)

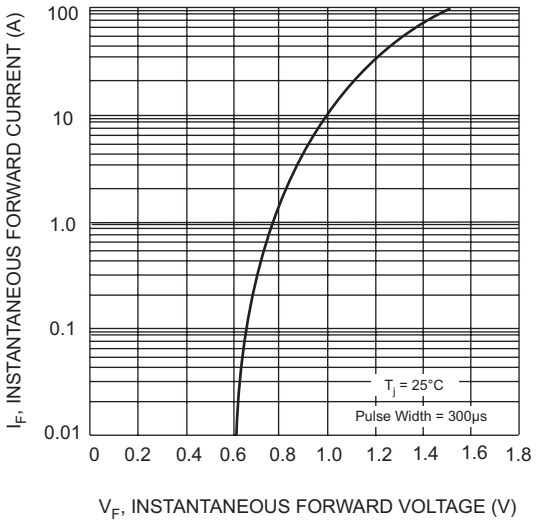

Fig. 3 Max Non-Repetitive Surge Current

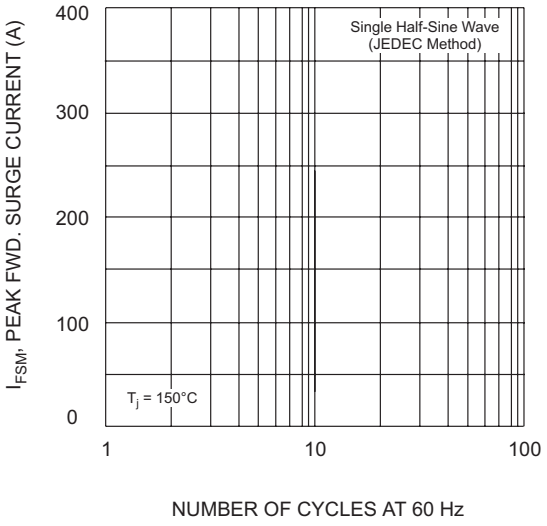

Fig. 4 Typical Junction Capacitance (per element)

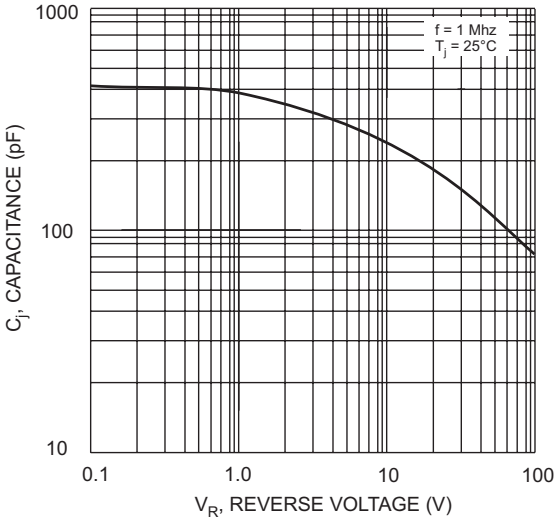

Fig. 5 Typical Reverse Characteristics (per element)