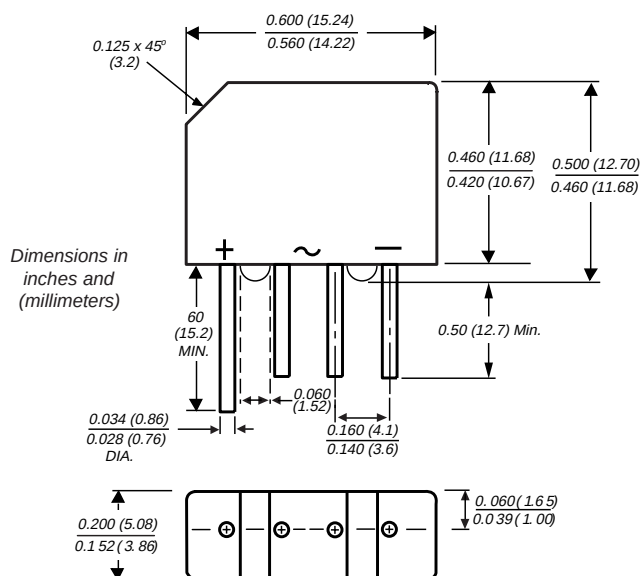


Case KBP

Glass Passivated Single Phase Bridge Rectifiers



Reverse Voltage 200 to 1000V
Forward current 2.0 Amp

Features

- Glass passivated die construction
- Ideal for printed circuit boards
- Plastic material used carries UL flammability recognition 94V-0
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

SMSC Catalog Number	Maximum Repetitive Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP202G	200V	140V	200V
KBP204G	400V	280V	400V
KBP206G	600V	420V	600V
KBP208G	800V	560V	800V
KBP210G	1000V	700V	1000V

Mechanical Data

Case: Molded plastic case

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Marked on Body

Mounting Position: Any

Weight: 0.06 oz., 1.7 g

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Maximum average forward output rectified current Tc = 40°C	I _{F(AV)}	2.0	A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60	A
Rating for fusing (t<8.3ms)	I ² t	15	A ² sec
Maximum thermal resistance per leg ⁽¹⁾	R _{θJA}	30	°C/W
	R _{θJC}	11	
Operating Junction and storage temperature range	T _j , T _{STG}	-55 to +150	°C

Electrical Characteristics (TA = 25°C unless otherwise noted)

Maximum Instantaneous Forward Voltage per leg	V _F	1.1V	I _{FM} = 2.0A
Maximum DC reverse current at rated DC blocking voltage per leg	I _R	5.0μA	T _A = 25°C
		500μA	T _A = 125°C

Notes: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12 x 12mm) copper pads.

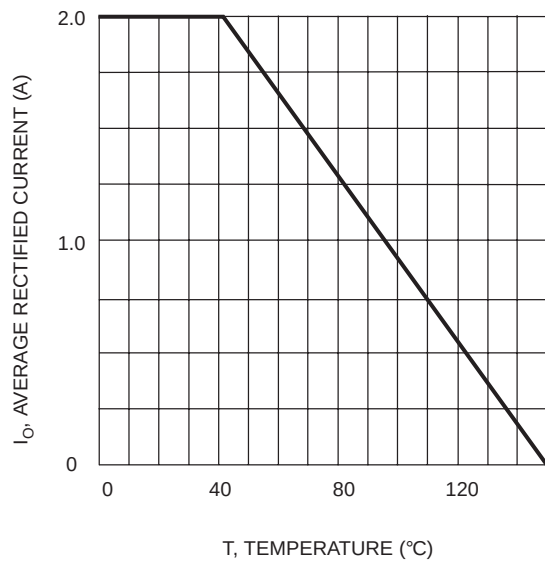


Fig. 1 Forward Current Derating

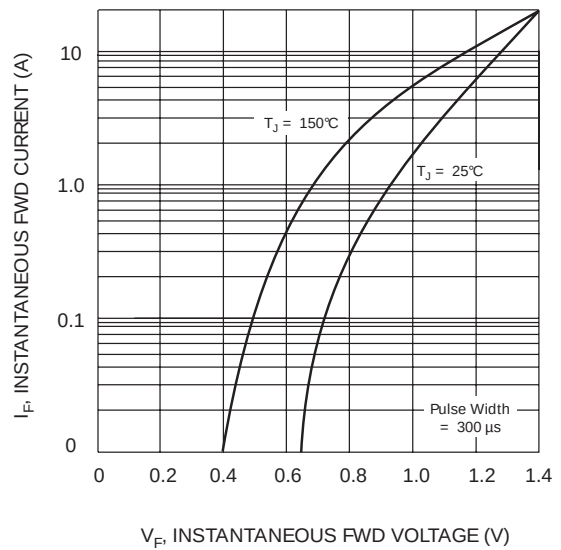


Fig. 2 Typical Fwd Characteristics

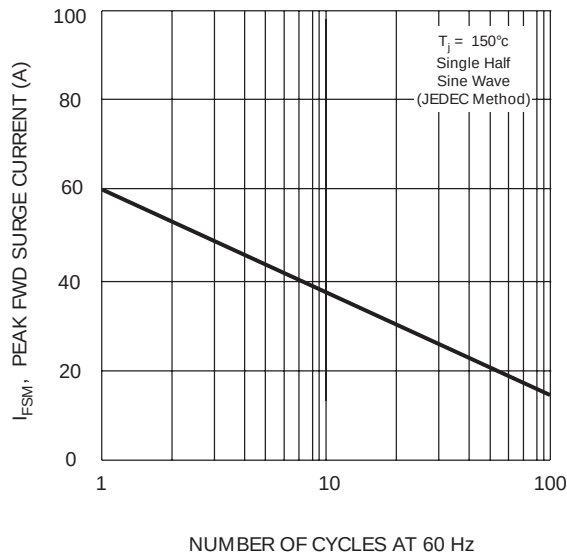


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

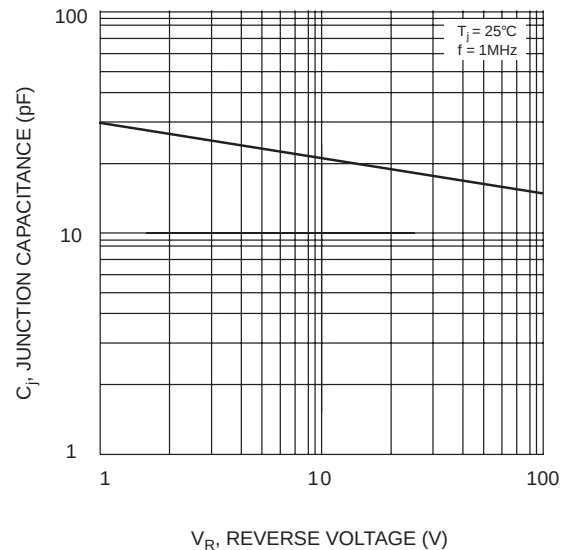


Fig. 4 Typical Junction Capacitance

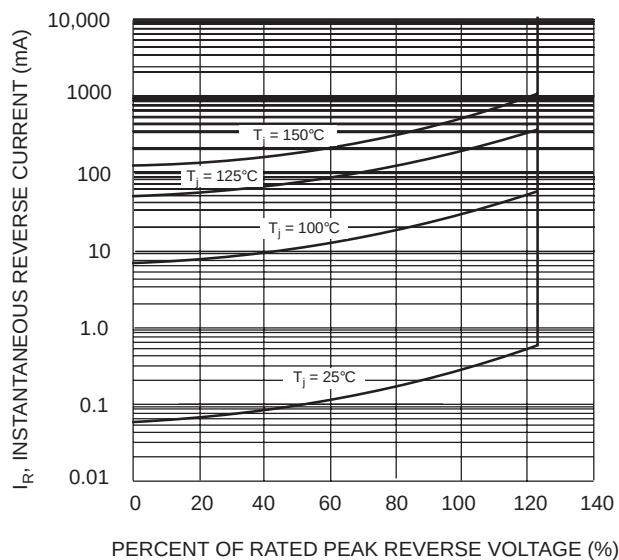


Fig. 5 Typical Reverse Characteristics