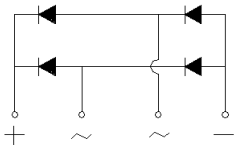
Single Phase Glass Passivated Silicon Bridge Rectifier

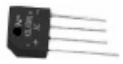
V_{RRM} = 50 V - 400 V
I_O = 2 A

Features

- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Built-in printed circuit board stand-offs
- High temperature soldering guaranteed 265°C/ 10 seconds
- High case dielectric strength
- Types from 50 V to 400 V V_{RRM}
- Not ESD Sensitive

KBP Package





Mechanical Data

Case: Reliable low cost construction

Terminals: Plated leads, solderable per MIL-STD-202, Method 208

Mounting position: Any

Weight: 0.065 oz, 2.2 grams

Maximum ratings at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBP201G	KBP202G	KBP203G	KBP204G	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics at Tj = 25 °C, unless otherwise specified

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

Parameter	Symbol	Conditions	KBP201G	KBP202G	KBP203G	KBP204G	Unit
Maximum average forward rectified current	I_O	T_a = 50 °C	2	2	2	2	A
Peak forward surge current	I_{FSM}	single sine-wave	60	60	60	60	A
Maximum instantaneous forward voltage per leg	V_F	I_F = 2 A	1.1	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	I_R	T_a = 25 °C	10	10	10	10	µA
		T_a = 100 °C	500	500	500	500	
Thermal characteristics							
Thermal resistance	$R_{\Theta JL}$		25	25	25	25	°C/W

FIG.1-MAXIMUM FORWARD CURRENT DERATING CURVE

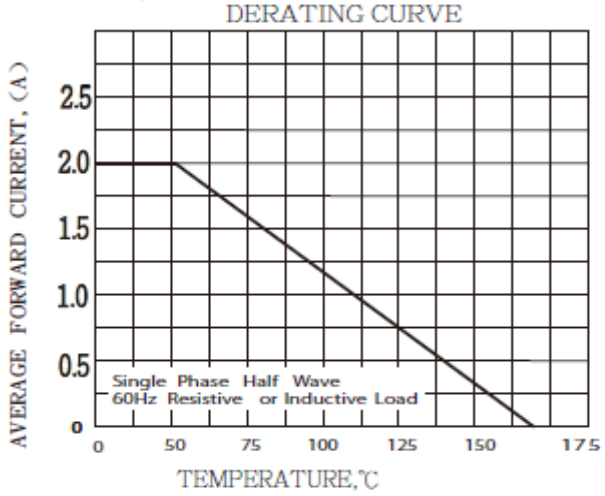
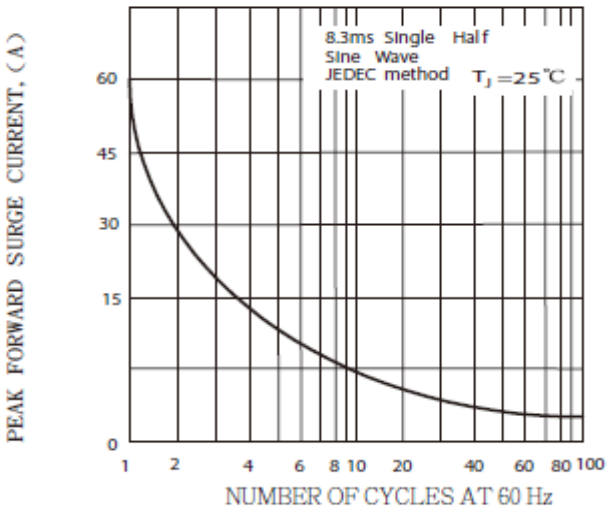
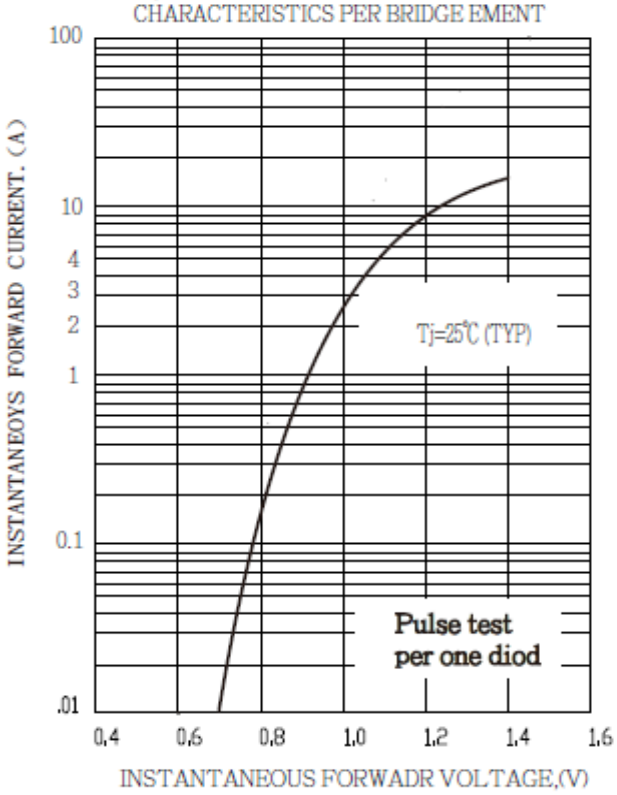


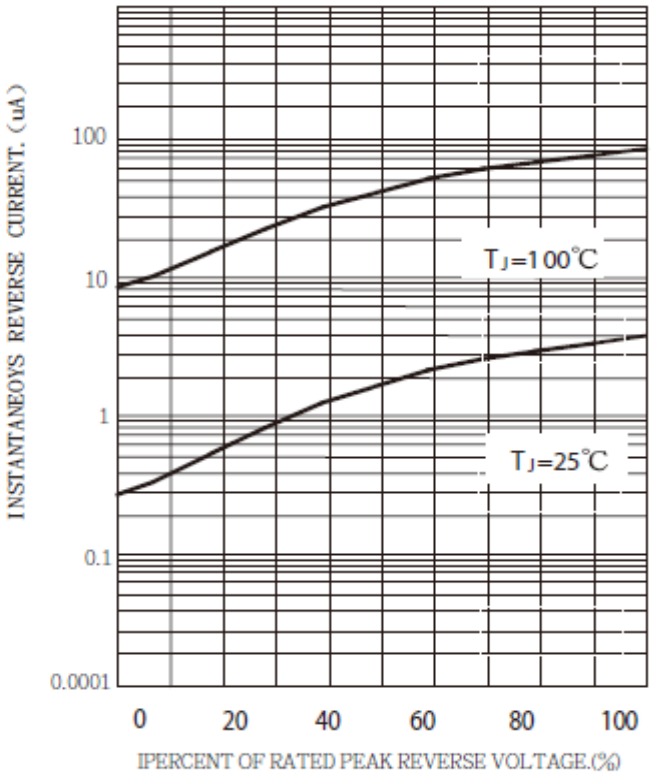
FIG.2-MAXIMVM NONO-RERETITIVE FORWARD SURGE CURRENT



FIG,3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE EMENT

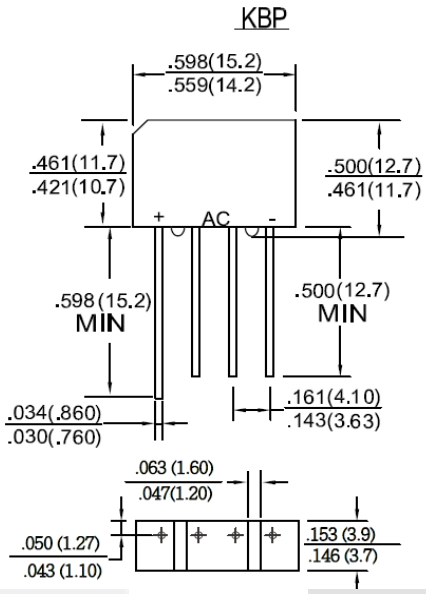


FIG,4-TYPICAL REVERSE CHARACTERISTICS PER BRIPGE ELEMENT



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)