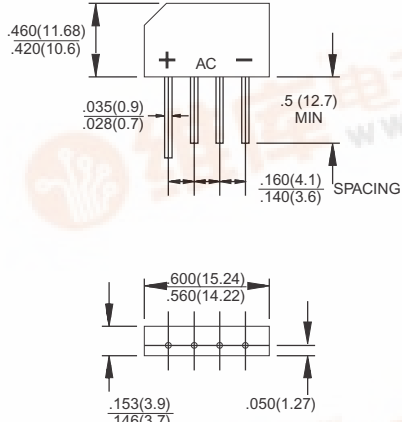


TSC 	KBP151G THRU KBP157G Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers																																																																																																														
	Voltage Range 50 to 1000 Volts Current 1.5 Amperes																																																																																																														
Features ◇ UL Recognized File # E-96005 ◇ Glass passivated junction ◇ Ideal for printed circuit board ◇ Reliable low cost construction ◇ High surge current capability ◇ High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3 kg) tension ◇ Small size, simple installation ◇ Leads solderable per MIL-STD-202, Method 208	KBP  Dimensions in inches and (millimeters)																																																																																																														
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20% <table><tr><th>Type Number</th><th>Symbol</th><th>KBP 151G</th><th>KBP 152G</th><th>KBP 153G</th><th>KBP 154G</th><th>KBP 155G</th><th>KBP 156G</th><th>KBP 157G</th><th>Units</th></tr><tr><td>Maximum Recurrent Peak Reverse Voltage</td><td>V_{RRM}</td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td>Maximum RMS Voltage</td><td>V_{RMS}</td><td>35</td><td>70</td><td>140</td><td>280</td><td>420</td><td>560</td><td>700</td><td>V</td></tr><tr><td>Maximum DC Blocking Voltage</td><td>V_{DC}</td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td>Maximum Average Forward Rectified Current @ T_A = 50°C</td><td>I_(AV)</td><td colspan="7">1.5</td><td>A</td></tr><tr><td>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</td><td>I_{FSM}</td><td colspan="7">50</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 1.5A</td><td>V_F</td><td colspan="7">1.1</td><td>V</td></tr><tr><td>Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C</td><td>I_R</td><td colspan="7">10 500</td><td>uA uA</td></tr><tr><td>Typical Thermal Resistance (Note)</td><td>R_{θJA} R_{θJL}</td><td colspan="7">40 13</td><td>°C/W</td></tr><tr><td>Operating Temperature Range</td><td>T_J</td><td colspan="7">-55 to +150</td><td>°C</td></tr><tr><td>Storage Temperature Range</td><td>T_{STG}</td><td colspan="7">-55 to +150</td><td>°C</td></tr></table>		Type Number	Symbol	KBP 151G	KBP 152G	KBP 153G	KBP 154G	KBP 155G	KBP 156G	KBP 157G	Units	Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	Maximum Average Forward Rectified Current @ T _A = 50°C	I _(AV)	1.5							A	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A	Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1							V	Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	10 500							uA uA	Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	40 13							°C/W	Operating Temperature Range	T _J	-55 to +150							°C	Storage Temperature Range	T _{STG}	-55 to +150							°C
Type Number	Symbol	KBP 151G	KBP 152G	KBP 153G	KBP 154G	KBP 155G	KBP 156G	KBP 157G	Units																																																																																																						
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V																																																																																																						
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V																																																																																																						
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V																																																																																																						
Maximum Average Forward Rectified Current @ T _A = 50°C	I _(AV)	1.5							A																																																																																																						
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A																																																																																																						
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1							V																																																																																																						
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	10 500							uA uA																																																																																																						
Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	40 13							°C/W																																																																																																						
Operating Temperature Range	T _J	-55 to +150							°C																																																																																																						
Storage Temperature Range	T _{STG}	-55 to +150							°C																																																																																																						

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B.
With 0.4" x 0.4" (10mm x 10mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (KBP151G THRU KBP157G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

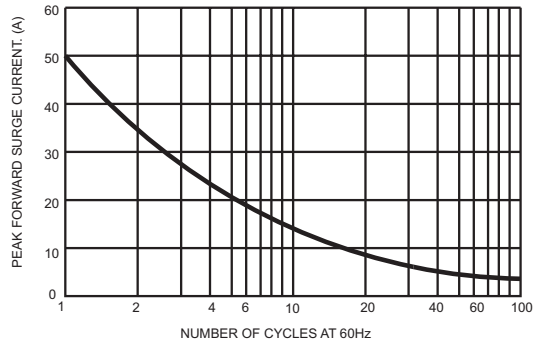


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

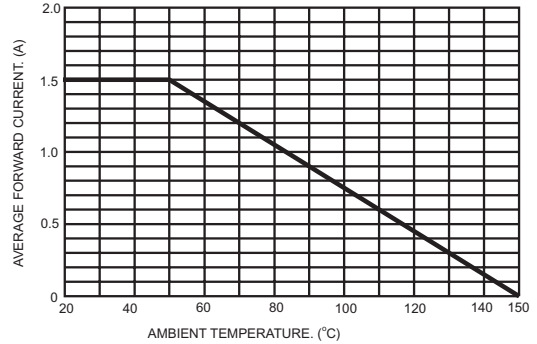


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

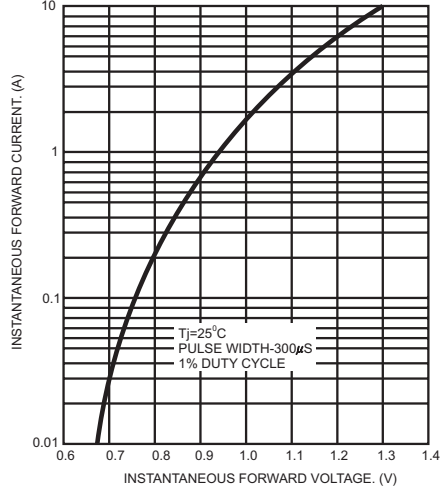


FIG.4- TYPICAL REVERSE CHARACTERISTICS

