



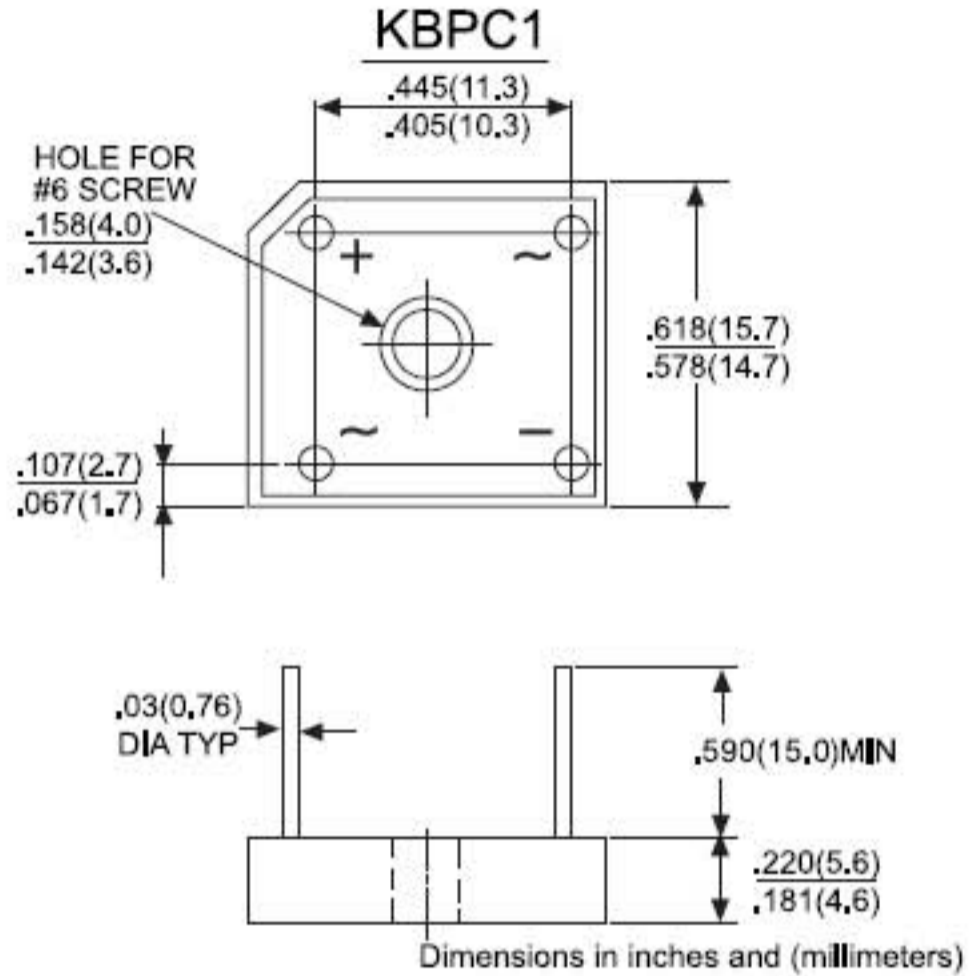
# KBPC1/BR3 SERIES

**SINGLE PHASE 3.0 AMPS.  
SILICON BRIDGE RECTIFIERS**

**Voltage Range  
50 to 1000 VOLTS  
Current  
3.0 Amperes**

**Features**

- UL Recognized File # E-230084
- High surge current capability
- Low forward voltage drop
- High temperature soldering guaranteed:  
250°C/10 seconds/.375", (9.5mm)  
lead lengths at 5 lbs., (2.3kg) tension
- Small size, simple installation
- Leads solderable per MIL-STD-202,  
Method 208



**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		BR3005 KBPC1005	BR301 KBPC101	BR302 KBPC102	BR304 KBPC104	BR306 KBPC106	BR308 KBPC108	BR310 KBPC110	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>A</sub> = 50°C	I <sub>F(AV)</sub>	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							A
Maximum Instantaneous Forward Voltage Drop Per Leg @ 1.5A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>A</sub> = 100°C	I <sub>R</sub>	10 500							uA uA
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

# RATING AND CHARACTERISTIC CURVES KBPC1/BR3 SERIES



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

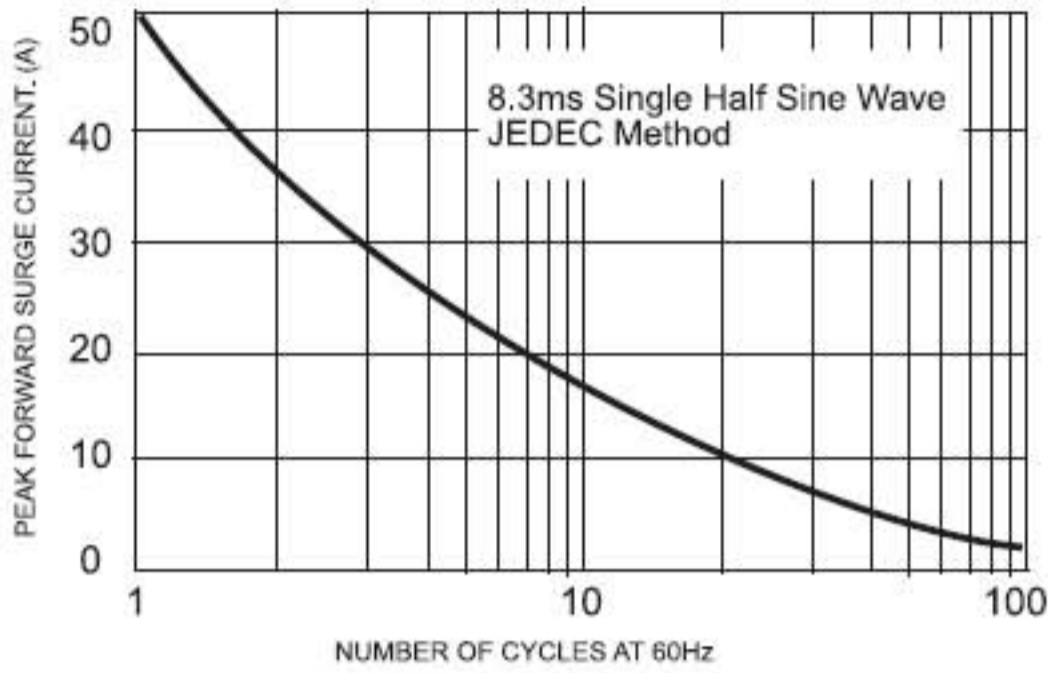


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

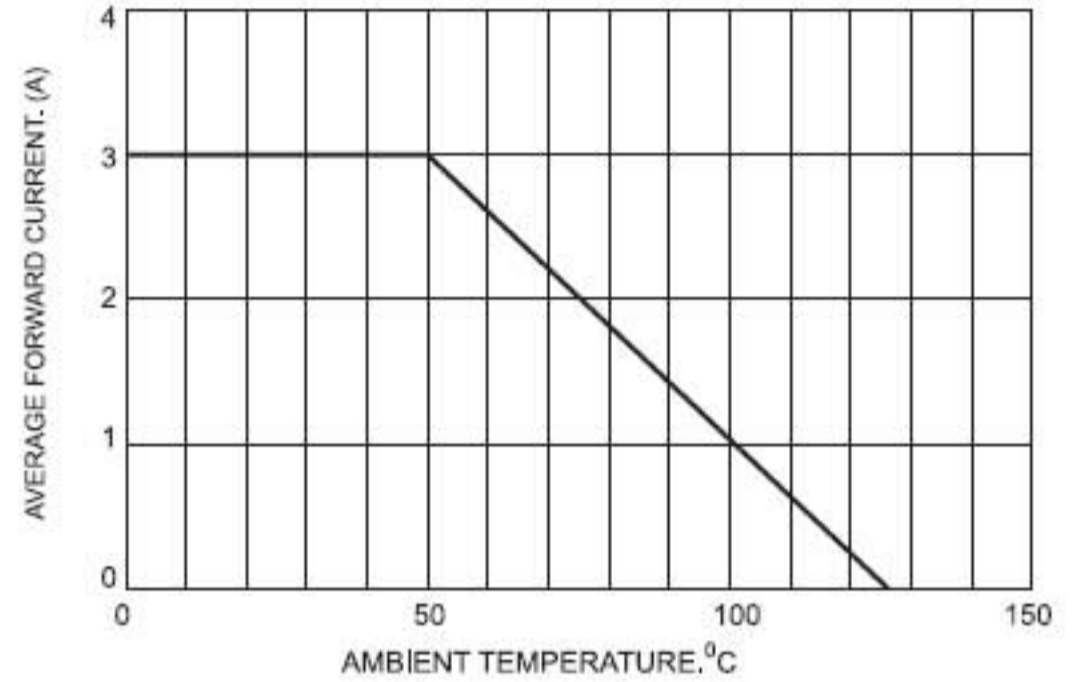


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

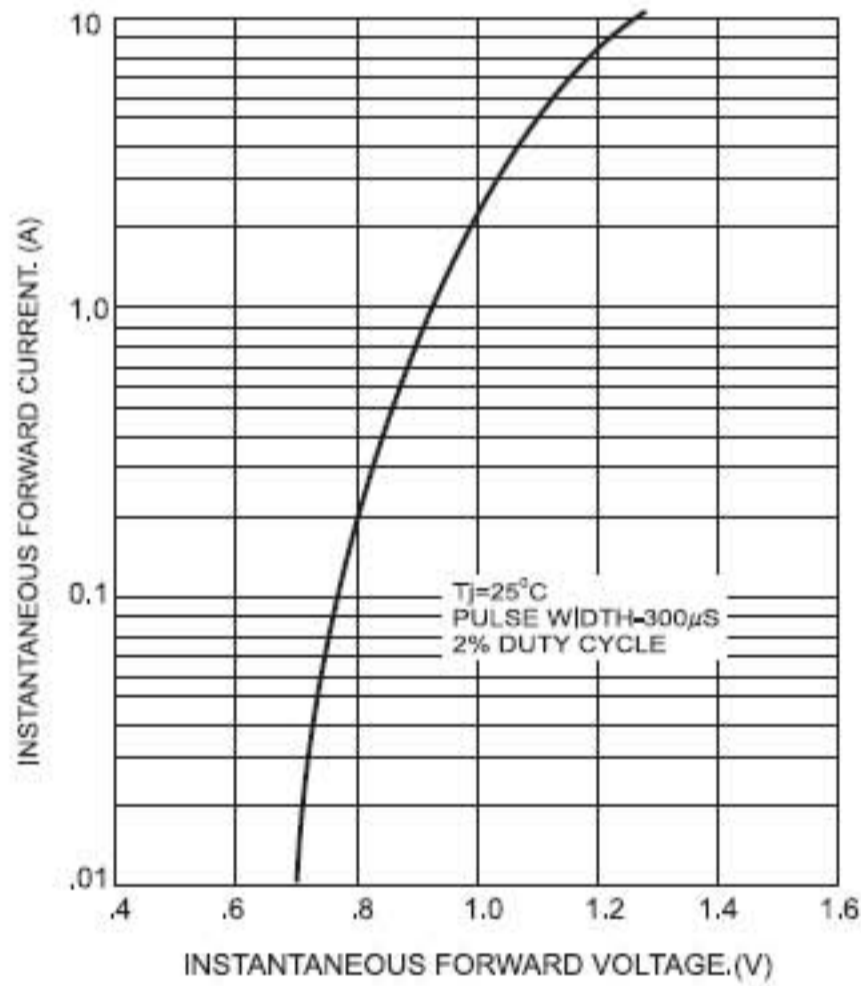


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

