KBPC10/BR10 SERIES

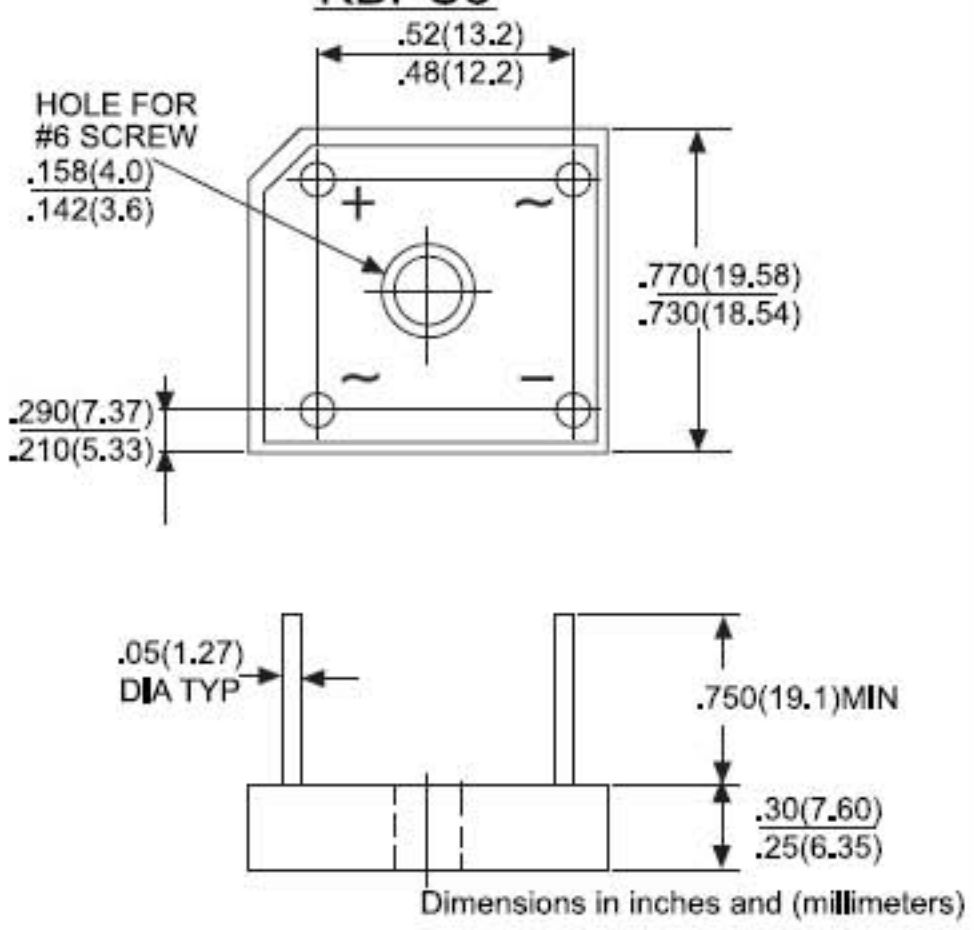
SINGLE PHASE 10.0 AMPS.
SILICON BRIDGE RECTIFIERS

Voltage Range
50 to 1000 VOLTS
Current
10.0 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

KBPC8



Dimensions in inches and (millimeters)

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		BR10005 KBPC10005	BR1001 KBPC1001	BR1002 KBPC1002	BR1004 KBPC1004	BR1006 KBPC1006	BR1008 KBPC1008	BR1010 KBPC1010	UNITS
Maximum Repetitive 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	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current, 8,3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	250							A
Maximum Instantaneous Forward Voltage Drop Per Leg @5,0A	V_F	1.1							V
Maximun DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 100°C	I_R	5 100							uA uA
Operating Temperature Range	T_J	-55 to+125							°C
Storage Temperature Range	T_{STG}	-55 to+150							°C

RATING AND CHARACTERISTIC CURVES
KBPC10/BR10 SERIES

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

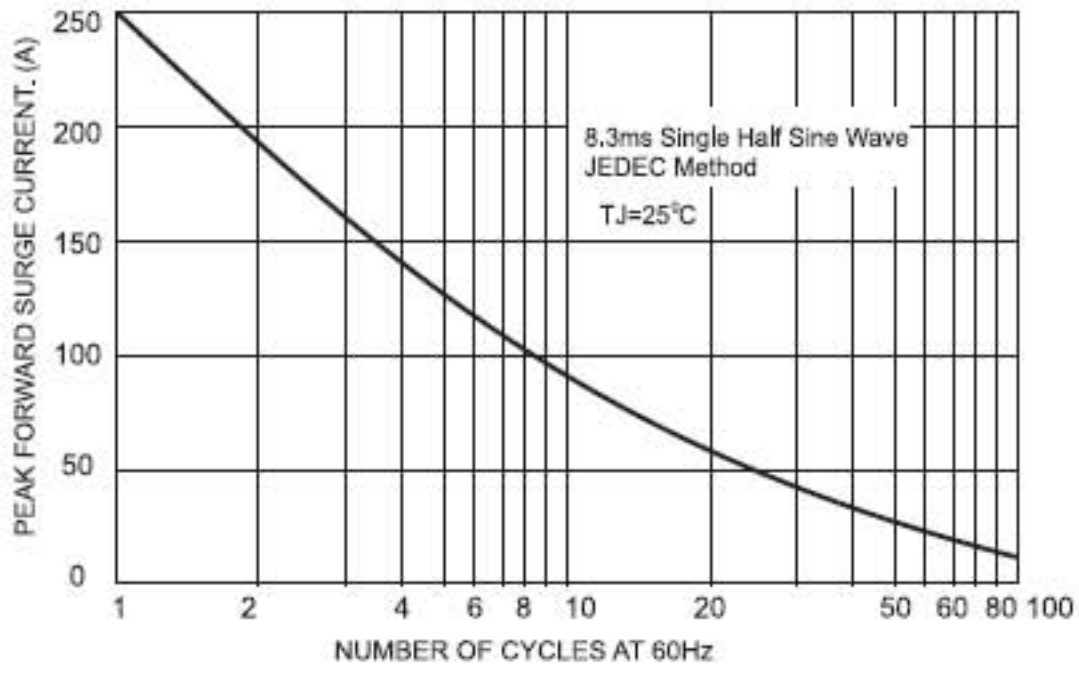


FIG.2- MAXIMUN FORWARD CURRENT DERATING CURVE

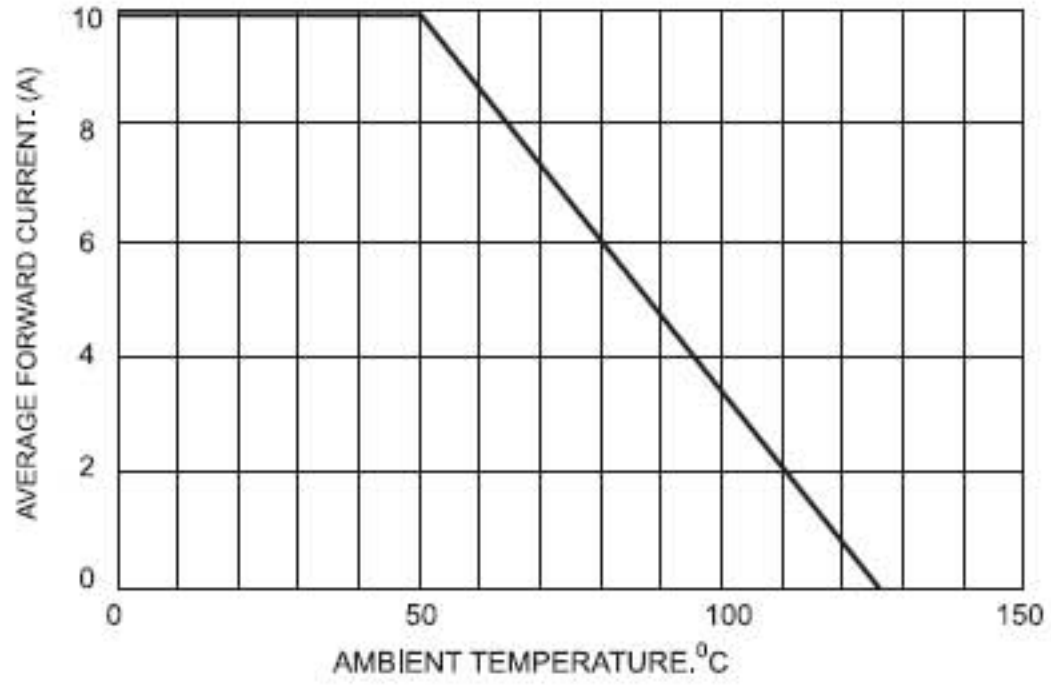


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

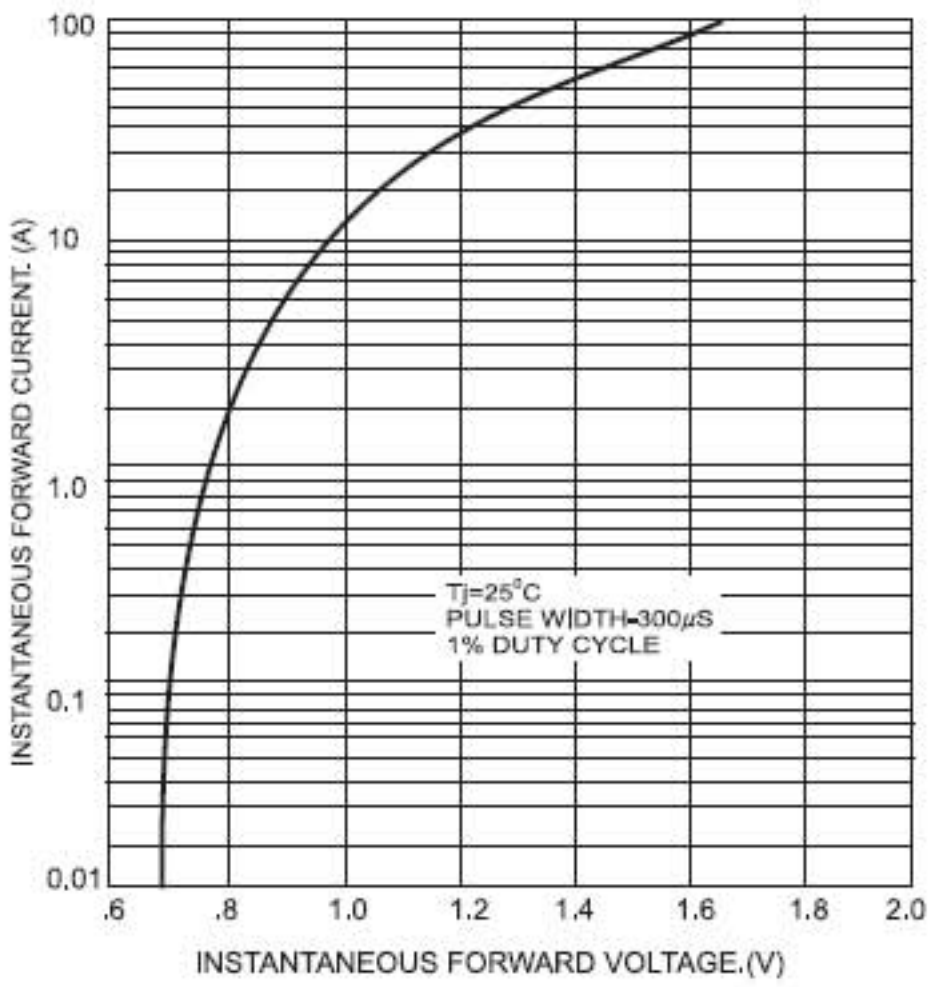


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

