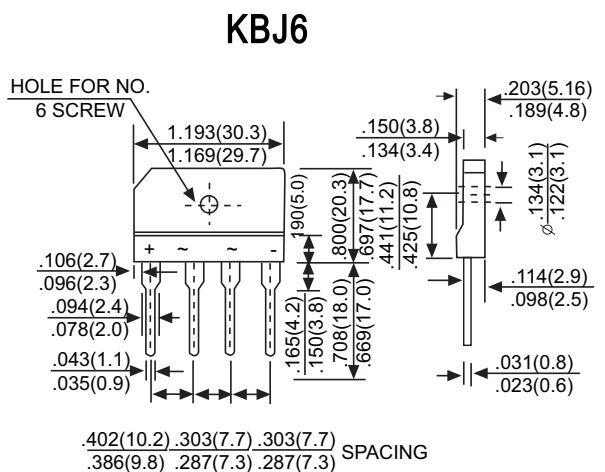


<b>KBJ6A SERIES</b>	
<b>SINGLE PHASE 6.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS</b>	<b>Voltage Range    50 to 1000 Volts</b>  <b>Current            6.0 Amperes</b>
<b>FEATURES</b> <ul style="list-style-type: none"> <li>*UL Recognized File #230084</li> <li>*Rating to 1000V PRV</li> <li>*Ideal for printed circuit board</li> <li>*Low forward voltage drop,high current capability</li> <li>*Reliable low cost construction utliliaing molded plastic technique results in inexpensive product</li> <li>*The plastic material has UL flammability classification 94V-0</li> </ul>	 <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
 Sing phase, half wave, 50Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

Type Number		KBJ6	KBJ6	KBJ6	KBJ6	KBJ6	KBJ6	KBJ6	UNITS
		005	01	02	04	06	08	10	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current@Tc = 100 C(without heatsink)	IF(AV)	6.0 2.8							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	170							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 3.0A/4.0A/5.0A	VF	1.0/1.0/1.05							V
Maximun DC Reverse Current at Rated DC Blocking Voltage	IR	5.0 500							uA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t	120							A <sup>2</sup> S
Typical Junction Capacitance per Leg (Note 1)	CJ	55							pF
Typical Thermal Resistance (Note 2)	RJC	1.8							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

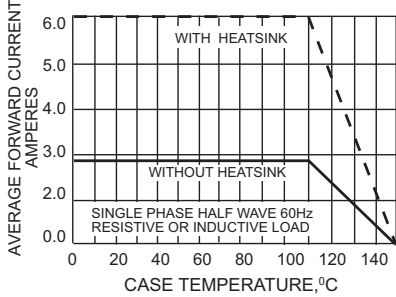
NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.  
 2.KBJ6005 Thru KBJ610: Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.  
 KBJ8005 Thru KBJ810: Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.  
 KBJ10005 Thru KBJ1010: Device mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.

# RATING AND CHARACTERISTIC CURVES

## KBJ6A SERIES

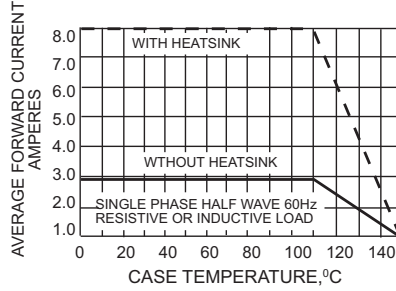
KBJ6A thru KBJ6M

FIG.1-1 - FORWARD CURRENT DERATING CURVE



KBJ8A thru KBJ8M

FIG.1-2 - FORWARD CURRENT DERATING CURVE



KBJ10A thru KBJ10M

FIG.1-3 - FORWARD CURRENT DERATING CURVE

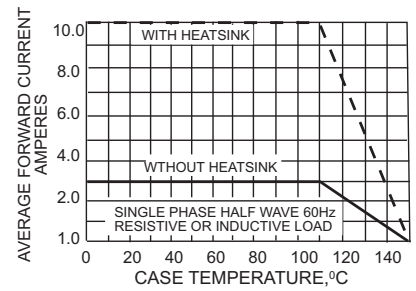


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

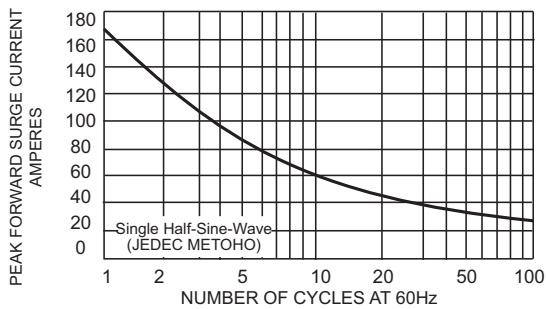


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

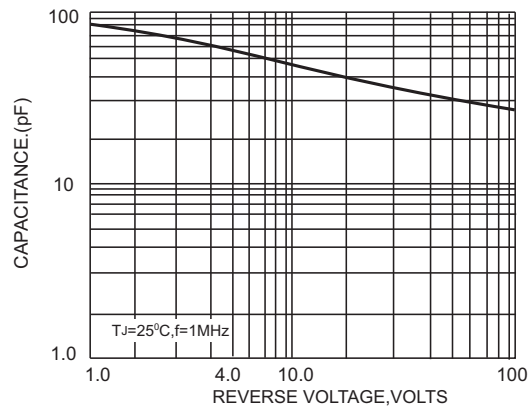


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

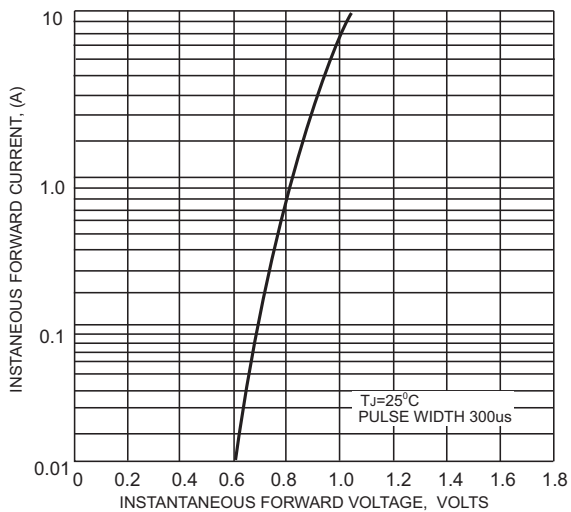


FIG.5-TYPICAL REVERSE CHARACTERISTICS

