

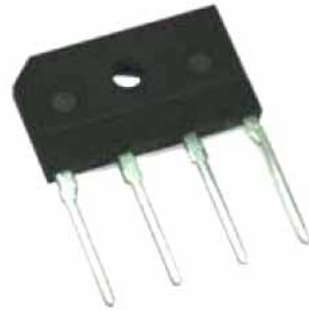
# KBJ10B Thru KBJ10M

**High Current Glass Passivated Molding Single-Phase Bridge Rectifier**

**Reverse Voltage 100 to 1000V Forward Current 10 A**

## FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM



## 1. Maximum & Thermal Characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter Symbol		Symbol	KBJ10B	KBJ10D	KBJ10G	KBJ10J	KBJ10K	KBJ10M	Unit
Maximum repetitive voltage		VRRM	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	100	200	400	600	800	1000	V
Maximum DC reverse current TA=25		IR	10						μA
at rated DC blocking voltage TA=125			500						
Maximum average forward rectified output current at	With heatsink Tc=100	Io	10						A
	Without heatsink Ta=25		3.4						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	200						A
Rating of fusing (t<8.3ms)		I <sup>2</sup> t	166						A <sup>2</sup> sec
Dielectric strength terminals to case , AC 1 minute Current 1mA		Vdia	2.5						KV
Max instantaneous forward voltage at 5.0A		VF	1.1						V
Operating junction temperature		TJ	-55~150						
Maximum thermal on P.C.B. without heat-sink		RθJA	Max 22						/W
resistance per leg on Al plate heat-sink		RθJC	Max 3.4						
Storage temperature		Tstg	-55~150						
Mounting torque		Tor	Rating Torque : 0.8						N.m

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## 2. Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted )

Fig. 1 Derating Curve

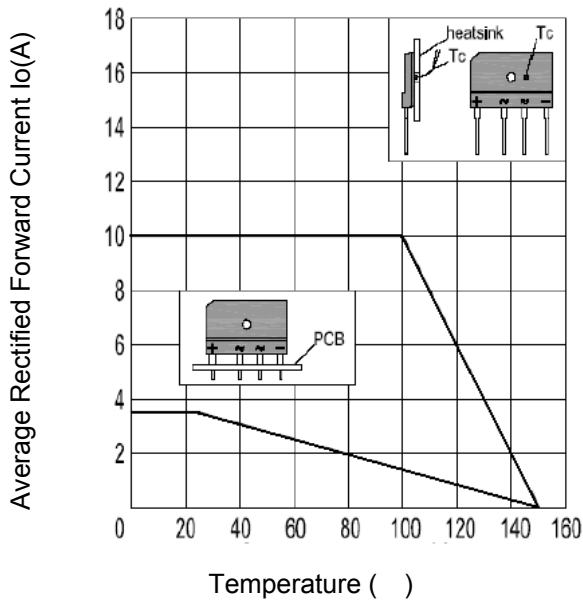


Fig.2 Typical Reverse Characteristics

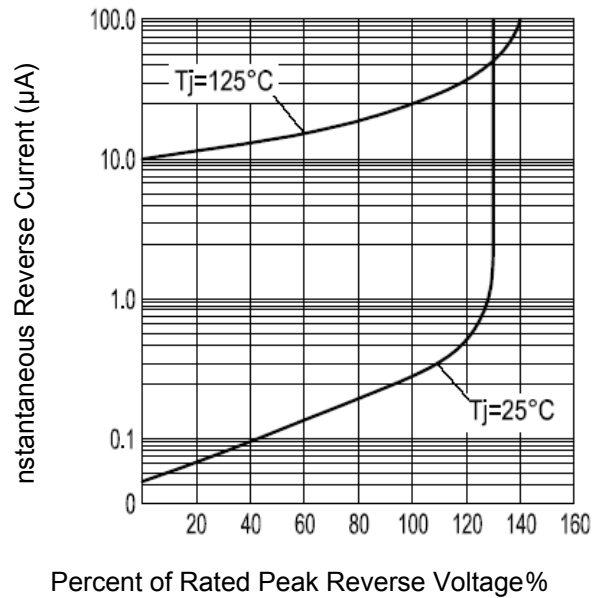


Fig.3 Forward Voltage

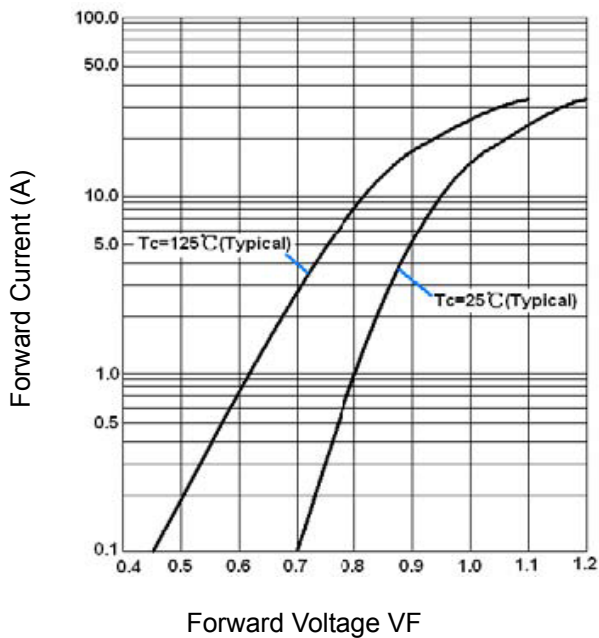
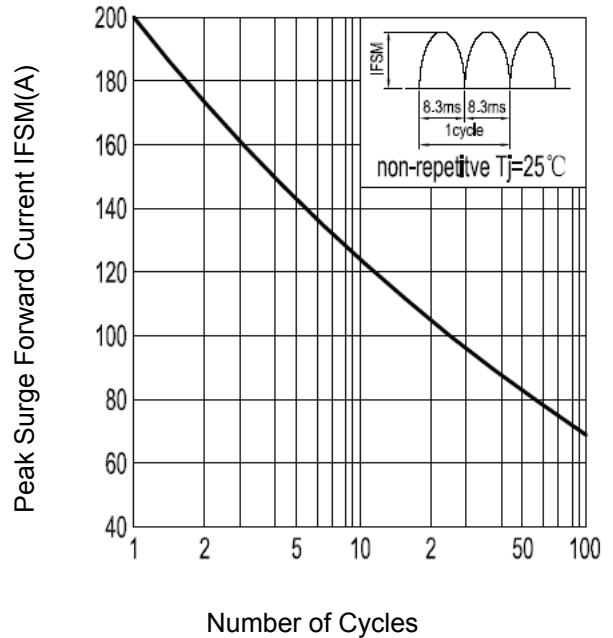
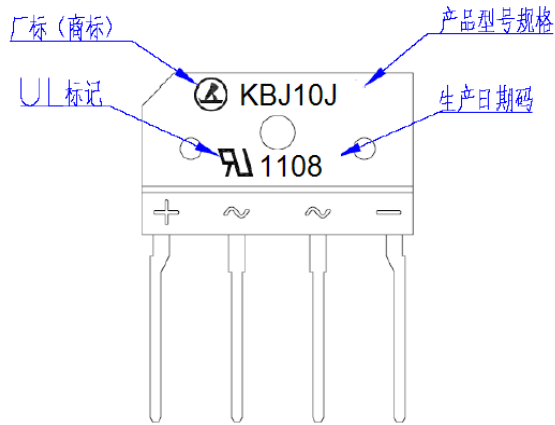


Fig.4 Peak Surge Forward Capability



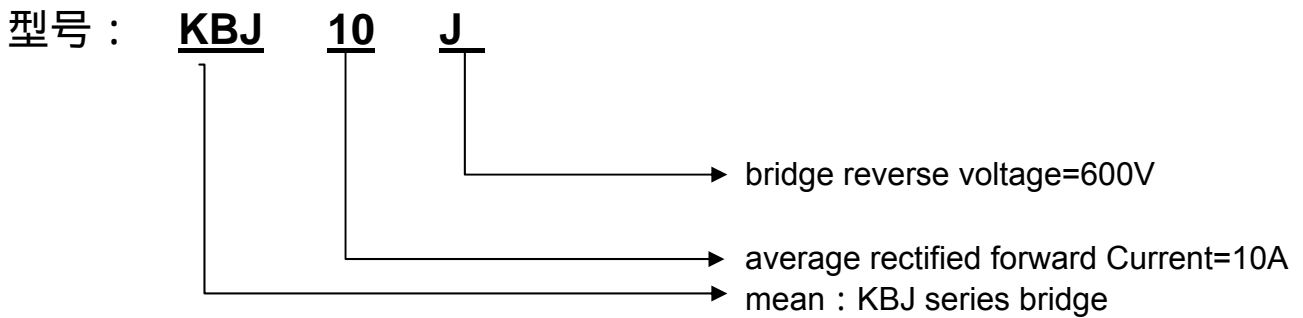
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## 3. Marking Identification



**Note :**

生产日期码包含4位数字，例如“1108”，前两个数字“11”表示为2011年，另外二个数字“08”是指第08周，即表示该产品为2010年08周生产。



## 4. Dimension

