

**Reverse Voltage 100 to 1000V Forward Current 8.0A**

## 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	KBJ8A	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	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 °C		IR	10						μA
at rated DC blocking voltage TA=125°C			500						
Maximum average forward rectified output current at	With heatsink Tc=100°C <sup>(1)</sup>	Io	8						A
	Without heatsink Ta=25°C <sup>(2)</sup>		2.8						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	175						A
Rating of fusing (t<8.3ms)		I <sup>2</sup> t	127						A <sup>2</sup> sec
Dielectric strength terminals to case, AC 1 minute Current 1mA		Vdia	2.5						KV
Max instantaneous forward voltage at 4.0A		VF	1.05						V
Operating junction temperature		TJ	-55~150						°C
Maximum thermal on P.C.B. without heat-sink		RθJA	22						°C/W
resistance per leg on Al plate heat-sink		RθJC	2.8						
Storage temperature		Tstg	-55~150						°C
Mounting torque		Tor	Rating Torque : 0.8						N.m

Notes:

(1) Unit case mounted on aluminum plate heatsink

(2) Units mounted on P.C.B. without heatsink

**2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)**

Fig. 1 Derating Curve

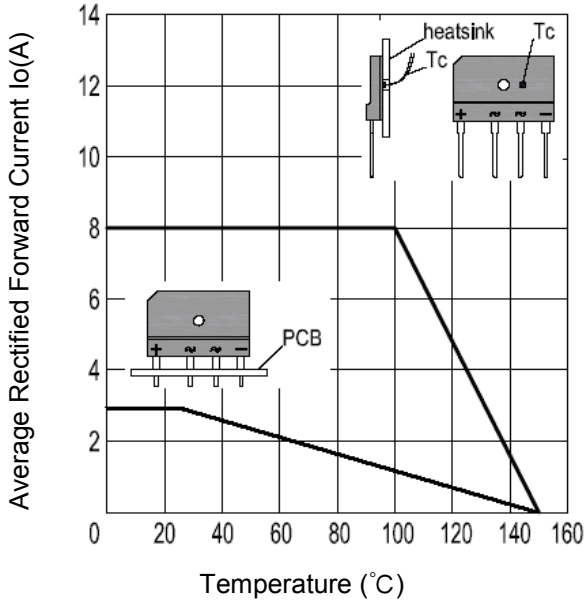


Fig.2 Typical Reverse Characteristics

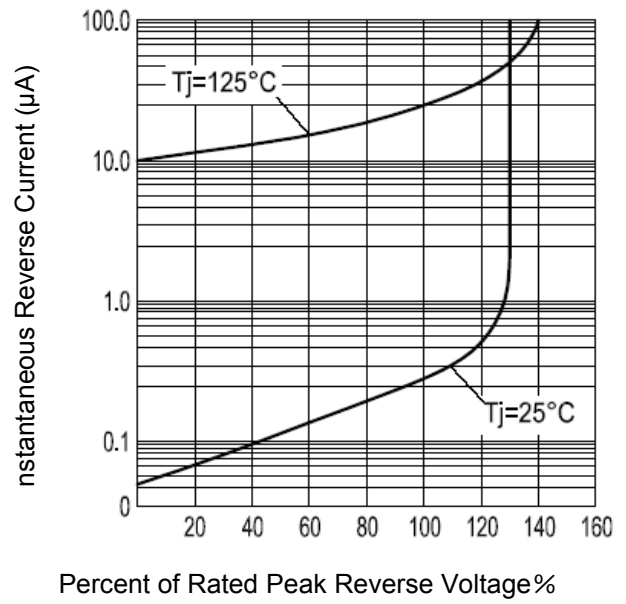


Fig.3 Forward Voltage

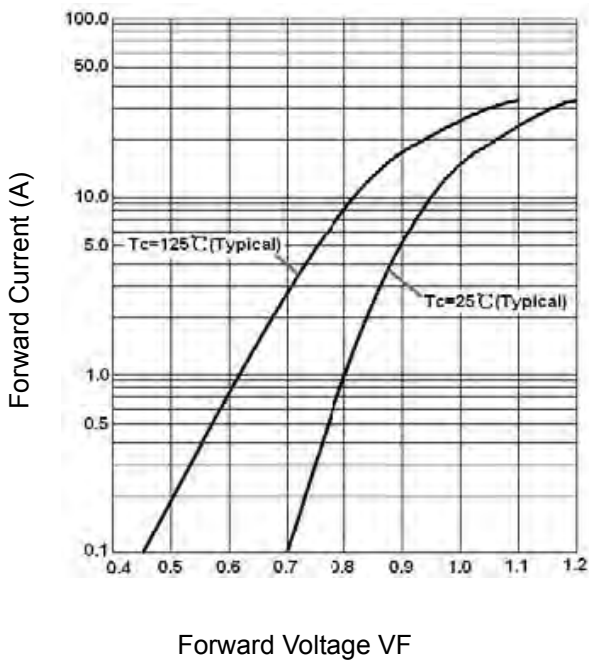
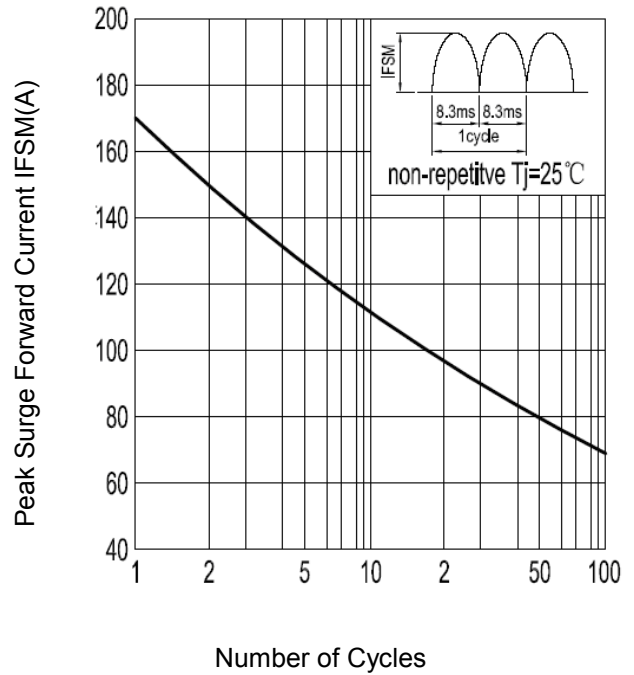


Fig.4 Peak Surge Forward Capability



### 3. Dimension

