

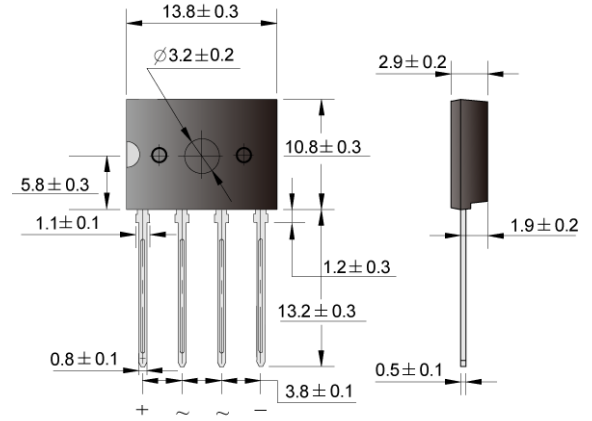
RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

**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

**D2-4KB**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)**

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D4KB 10	D4KB 20	D4KB 40	D4KB 60	D4KB 80	D4KB 100	
Maximum repetitive voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Maximum DC reverse current at @T <sub>A</sub> =25°C	I <sub>R</sub>	5						μA
rated DC blocking voltage @T <sub>A</sub> =125°C		500						
Average rectified forward current @T <sub>C</sub> =100°C	I <sub>O</sub>	4						A
60Hz Sine wave Resistance load @T <sub>A</sub> =40°C		3						
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	135						A
Rating of fusing (t < 8.3ms)	I <sup>2</sup> t	75						A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage @ 2.0A	V <sub>F</sub>	1.0						V
Dielectric strength terminals to case, AC 1 minute Current 1mA	V <sub>dia</sub>	2.5						KV
Maximum thermal on P.C.B without heat-sink	R <sub>θJA</sub>	14						°C / W
Resistance per leg on Al plate heat-sink	R <sub>θJC</sub>	8.2						
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150 , -55 ~ 150						°C

**CHARACTERISTIC CURVES**

Fig. 1 Derating Curve

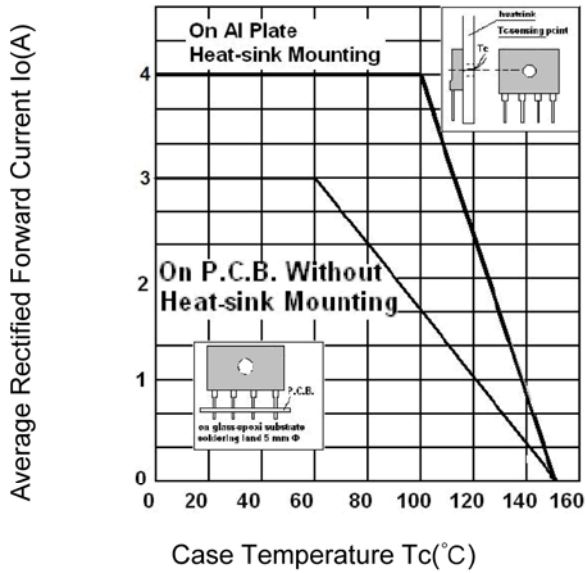


Fig.2 Typical Reverse Characteristics

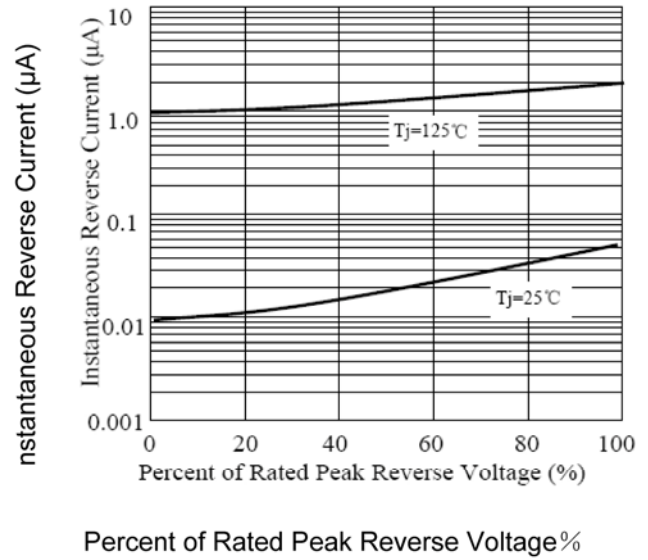


Fig.3 Forward Voltage

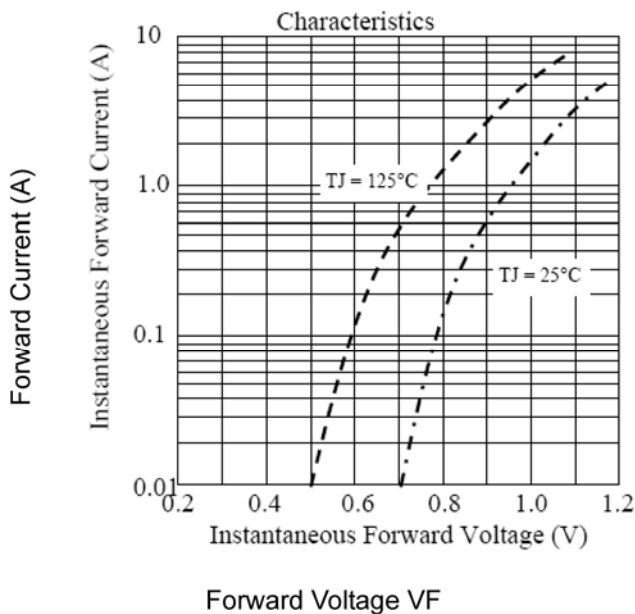


Fig.4 Peak Surge Forward Capability

