

**D3SB10 ~ D3SB100**  
**100 V ~ 1000 V**  
**4.0 Amp High Current Glass Passivated**  
**Molding Single-Phase Bridge Rectifier**

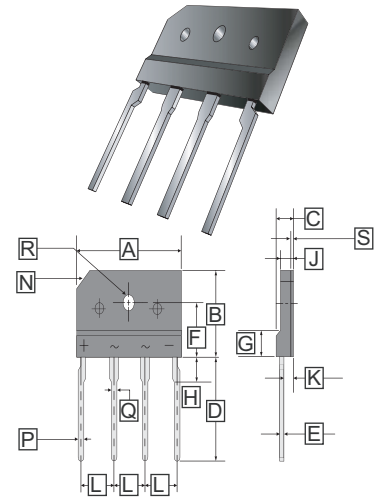
RoHS Compliant Product

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

**D3-4SB**

**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



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	24.7	25.3	K	2.50	2.90
B	14.7	15.3	L	7.30	7.70
C	4.58	4.62	N	3 X 45°	
D	17.0	18.0	P	0.90	1.10
E	0.50	0.90	Q	1.50 REF.	
G	4.50 REF.		R	3.00	3.40
J	3.50	3.90	S	0.8	1.2
F	9.3	9.7	H	3.0	4.0

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

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D3SB 10	D3SB 20	D3SB 40	D3SB 60	D3SB 80	D3SB 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>	10						μA
rated DC blocking voltage @T <sub>A</sub> =125°C		500						
Maximum average forward rectified output current at	With heatsink T <sub>C</sub> =100°C	4.0						A
	Without heatsink T <sub>A</sub> =40°C	2.3						
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150						A
Rating of fusing (t < 8.3ms)	I <sup>2</sup> t	93						A2sec
Maximum Instantaneous Forward Voltage @ 2.0A	V <sub>F</sub>	1.1						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>	26						°C / W
Resistance per leg on Al plate heat-sink	R <sub>θJC</sub>	4.2						
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150 , -55 ~ 150						°C
Mounting torque	Tor	Rating Torque : 0.8						N.m

**CHARACTERISTIC CURVES**

Fig. 1 Derating Curve

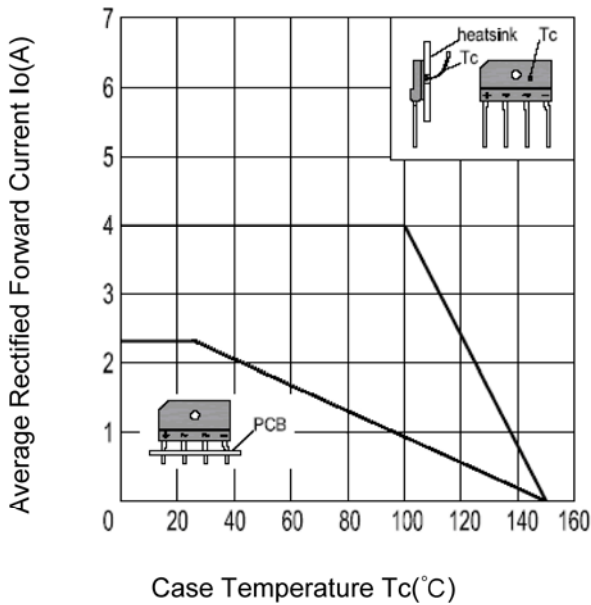


Fig.2 Typical Reverse Characteristics

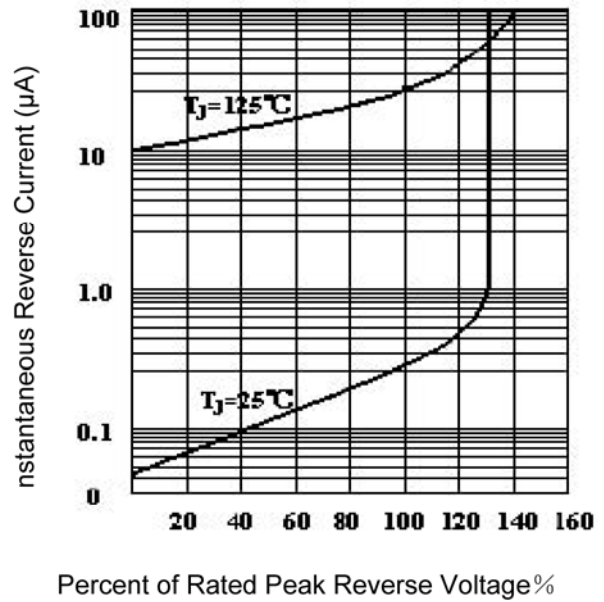


Fig.3 Forward Voltage

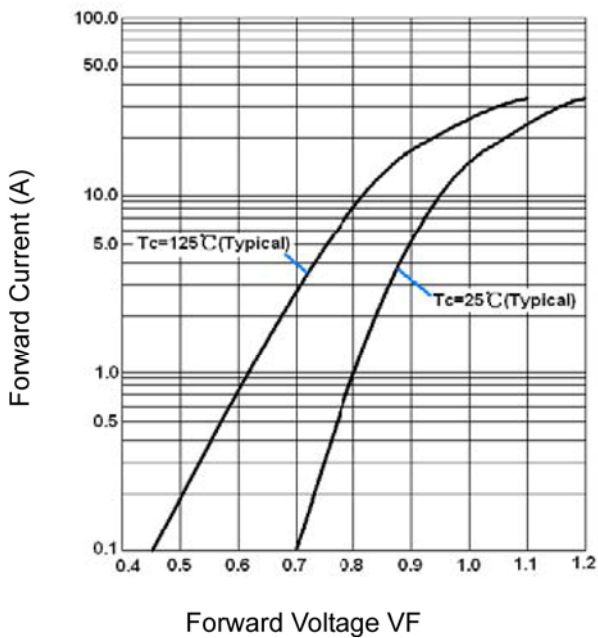


Fig.4 Peak Surge Forward Capability

