

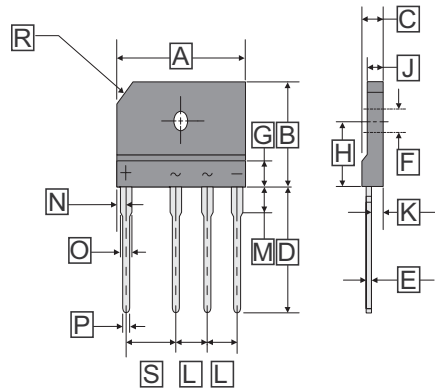
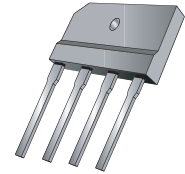
RoHS Compliant Product

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

D5-25SB

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	29.7	30.3	K	2.6	2.8
B	19.7	20.3	L	7.3	7.7
C	4.4	4.8	N	2.3	2.7
D	17.0	18.0	P	0.9	1.1
E	0.6	0.8	O	2.0	2.4
G	5 REF.		R	3 X 45°	
J	3.4	3.8	S	9.8	10.2
F	3.3	3.7	H	10.8	11.2

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D15SB 10	D15SB 20	D15SB 40	D15SB 60	D15SB 80	D15SB 100	
Maximum repetitive voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum DC reverse current at $@T_A=25^\circ\text{C}$	I_R	10						μA
rated DC blocking voltage $@T_A=125^\circ\text{C}$		500						
Maximum average forward rectified output current at	I_O	15						A
		3.5						
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250						A
Rating of fusing ($t < 8.3\text{ms}$)	I^2t	240						A2sec
Maximum Instantaneous Forward Voltage @ 7.5A	V_F	1.0						V
Dielectric strength terminals to case, AC 1 minute Current 1mA	V_{dia}	2.5						KV
Maximum thermal on P.C.B without heat-sink	$R_{\theta JA}$	23						$^\circ\text{C} / \text{W}$
Resistance per leg on Al plate heat-sink	$R_{\theta JC}$	1.5						
Operating and Storage Temperature Range	T_J, T_{STG}	150, -55 ~ 150						$^\circ\text{C}$
Mounting torque	Tor	Rating Torque : 0.8						N.m

CHARACTERISTIC CURVES

Fig. 1 Derating Curve

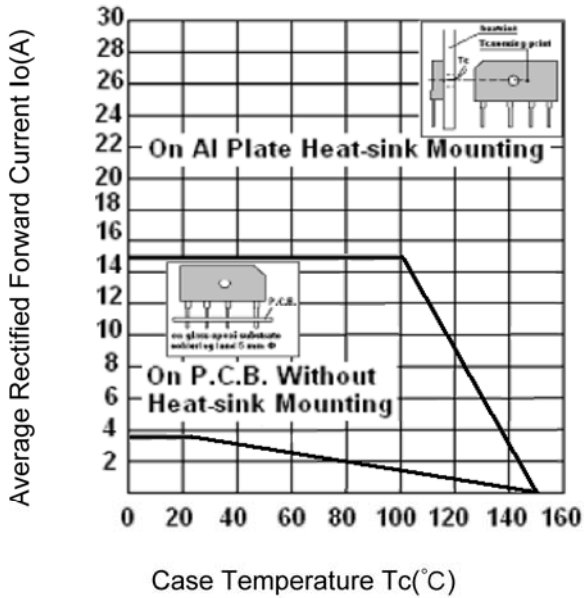


Fig.2 Typical Reverse Characteristics

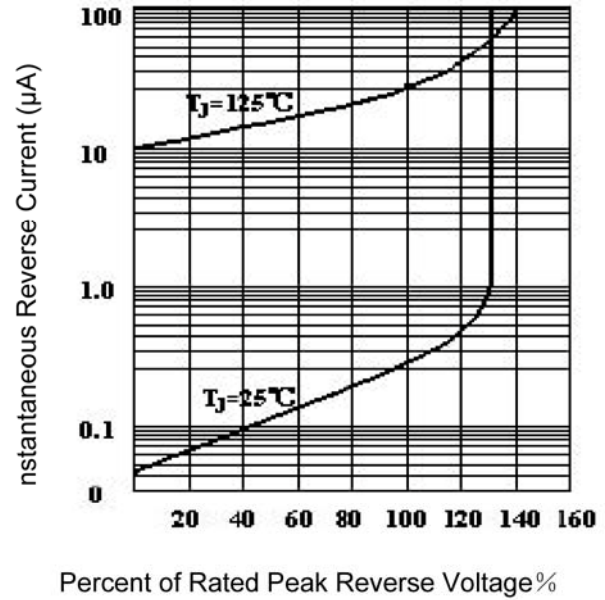


Fig.3 Forward Voltage

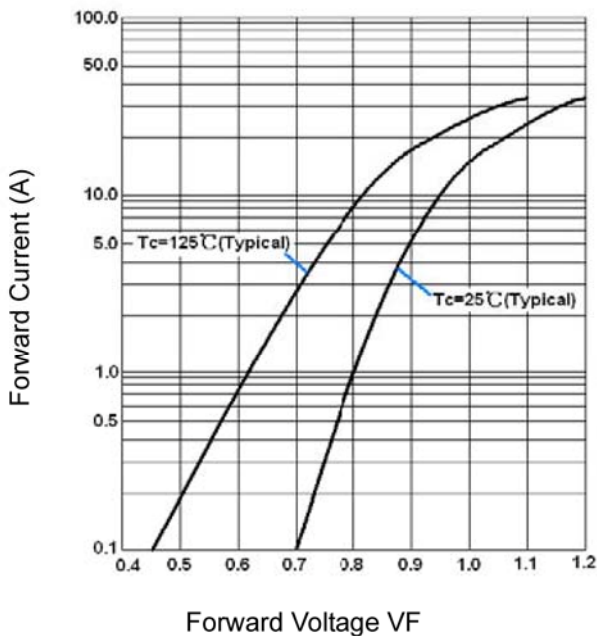


Fig.4 Peak Surge Forward Capability

