

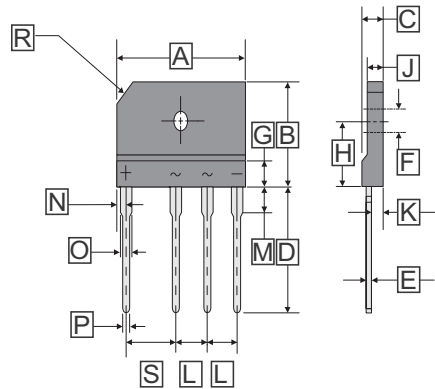
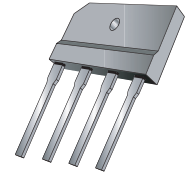
RoHS Compliant Product

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

D5-25SB

FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- This Series is UL listed under the Recognized Component index, file number E231047
- Single-in-line package
- High current capacity with small package
- Superior thermal conductivity
- High temperature soldering guaranteed : 260°C / 10 seconds
- 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°C unless otherwise noted)

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D10SB	D10SB	D10SB	D10SB	D10SB	D10SB	
		10	20	40	60	80	100	
Maximum repetitive voltage	V _{RM}	100	200	400	600	800	1000	V
Maximum DC reverse current at @T _A =25°C	I _R	10						μA
rated DC blocking voltage @T _A =125°C		500						
Average rectified forward current 60Hz Sine wave Resistance load @T _C =100°C	I _O	10 ⁽¹⁾						A
@T _A =25°C		3.4 ⁽²⁾						
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	I _{FSM}	200						A
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.1						V
Dielectric strength terminals to case, AC 1 minute Current 1mA	V _{dia}	2.5						KV
Maximum thermal Resistance per leg	on P.C.B without heat-sink	R _{θJA}						°C / W
	on Al plate heat-sink	R _{θJC}						
Operating and Storage Temperature Range	T _J , T _{STG}	150, -40 ~ 150						°C
Mounting torque	Tor	Rating Torque : 0.8N.m						N.m

Notes :

- (1) Unit case mounted on Al plate heat-sink
- (2) Unites mounted on P.C.B. without heat-sink
- (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw {heat-sink size : 10.5 * 8.2 * 0.3cm}

CHARACTERISTIC CURVES

Fig. 1 Derating Curve

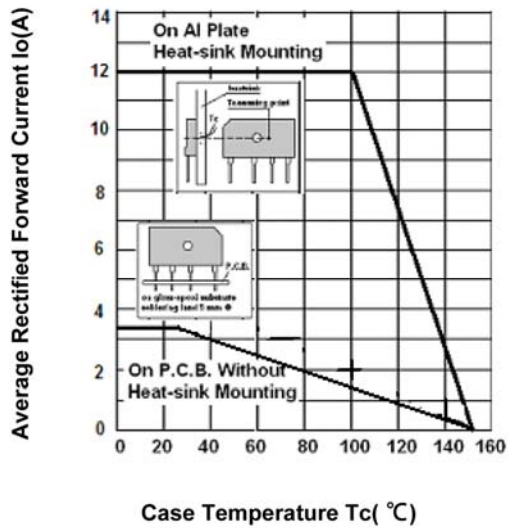


Fig.3 Peak Surge Forward capability

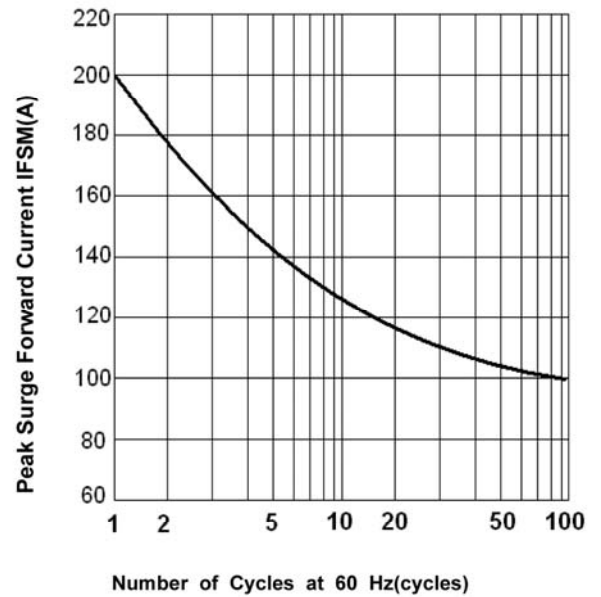


Fig.2 Typical Reverse Characteristics

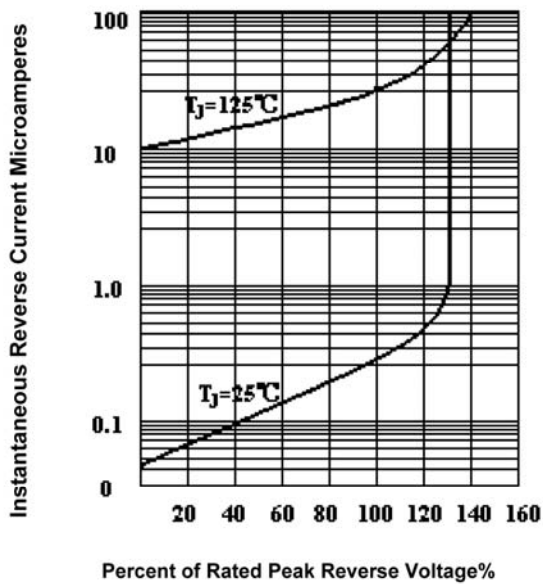


Fig.4 Forward Voltage

