

VOLTAGE RANGE: 100 - 1000V
CURRENT: 6.0 A

Features

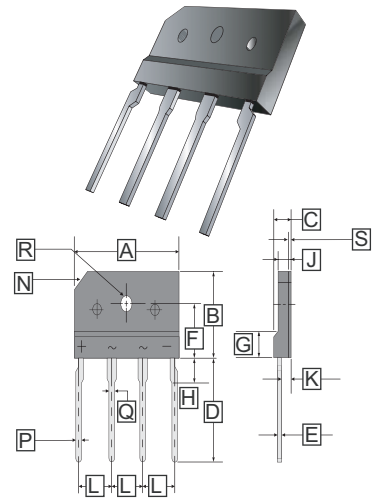
- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- This Series is UL listed under the Recognized Component index, file number E231047
- Single-in-line package
- High current capacity with small package
- Superior thermal conductivity
- High temperature soldering guaranteed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

Mechanical Data

- Case: D3-SB, Molded Plastic



D3-SB



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 $T_A = 25^\circ\text{C}$ unless otherwise specified

PARAMETERS	SYMBOL	D4SB	D4SB	D4SB	D4SB	D4SB	D4SB	UNITS
		10	20	40	60	80	100	
Maximum repetitive voltage	V_{RM}	100	200	400	600	800	1000	V
Maximum DC reverse current at $@T_A=25^\circ\text{C}$ rated DC blocking voltage $@T_A=125^\circ\text{C}$	I_R	10						μA
Average rectified forward current 60Hz Sine wave Resistance load $@T_A=25^\circ\text{C}$	I_O	6 ⁽¹⁾						A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	I_{FSM}	2.8 ⁽²⁾						A
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	150						V
Dielectric strength terminals to case, AC 1 minute Current 1mA	V_{dia}	1.1						KV
Maximum thermal on P.C.B without heat-sink	$R_{\theta JA}$	2.5						$^\circ\text{C} / \text{W}$
Resistance per leg on Al plate heat-sink	$R_{\theta JC}$	22 ⁽²⁾						
Operating and Storage Temperature Range	T_J, T_{STG}	3.4 ⁽¹⁾						$^\circ\text{C}$
		150, -40 ~ 150						

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 : 6.5 * 4.0 * 0.3cm}

Fig. 1 derating Curve

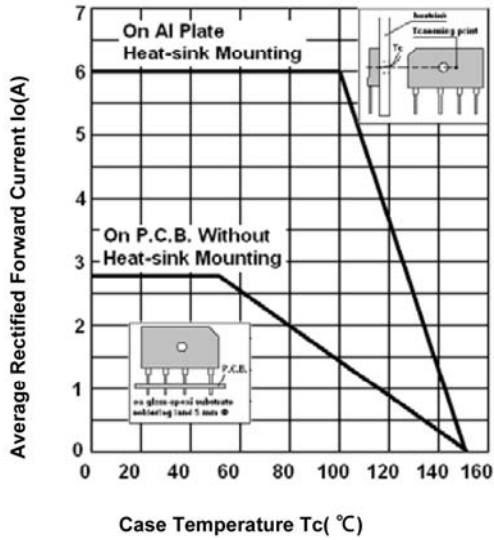


Fig.3 Peak Surge Forward capability

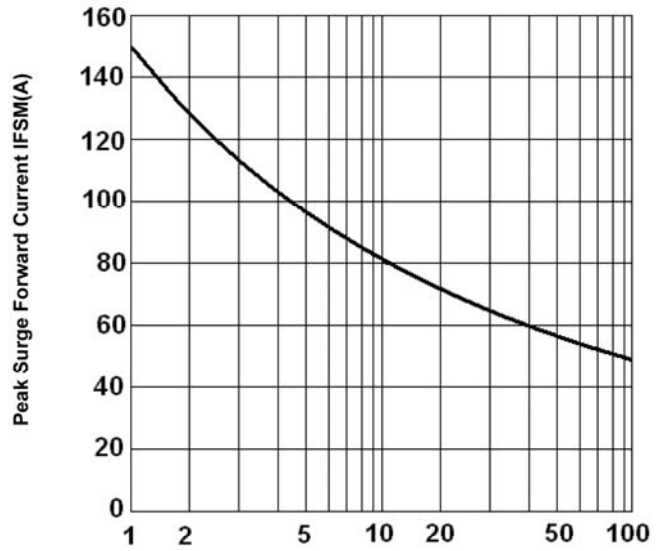


Fig.2 Typical Reverse Characteristics

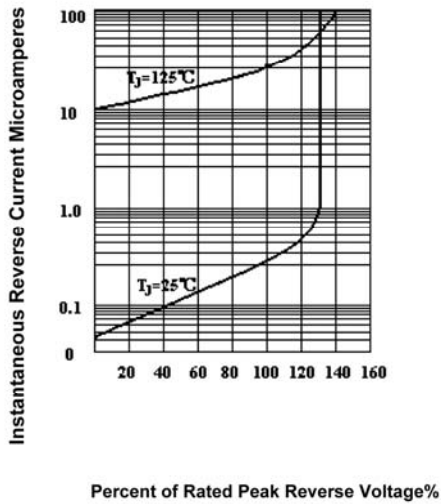


Fig.4 Forward Voltage

