

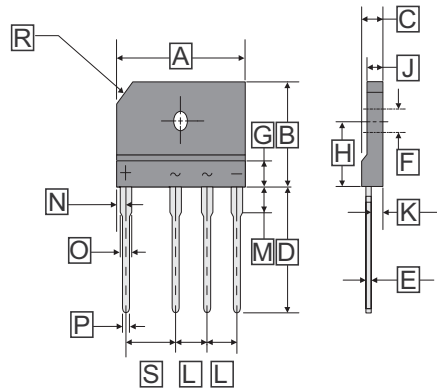
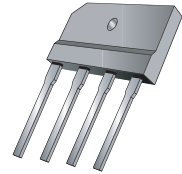
RoHS Compliant Product

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<sub>A</sub>=25°C unless otherwise noted)**

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D20SB 10	D20SB 20	D20SB 40	D20SB 60	D20SB 80	D20SB 100	
		RBV 2002S	RBV 2003S	RBV 2004S	RBV 2005S	RBV 2006S	RBV 2007S	
Maximum repetitive voltage	V <sub>RM</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						
Average rectified forward current 60Hz Sine wave	I <sub>O</sub>	20 <sup>(1)</sup>						A
Resistance load @T <sub>A</sub> =25°C		3.5 <sup>(2)</sup>						
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	300						A
Maximum Instantaneous Forward Voltage @ 10.0A	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 Resistance per leg	on P.C.B without heat-sink	R <sub>θJA</sub>						°C / W
	on Al plate heat-sink	R <sub>θJC</sub>						
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	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 : 12.7 \* 10.2 \* 7.6cm}

**CHARACTERISTIC CURVES**

Fig. 1 Derating Curve

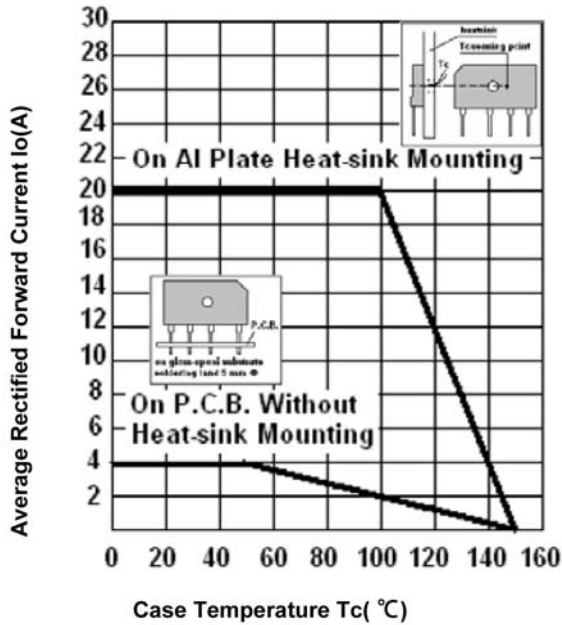


Fig.3 Peak Surge Forward capability

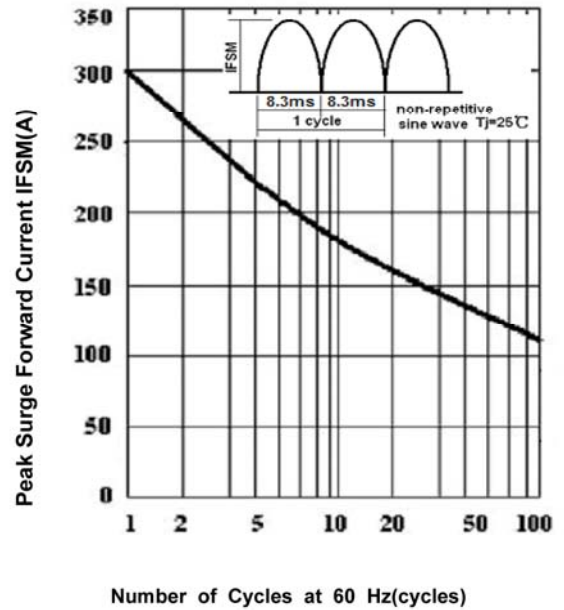


Fig.2 Typical Reverse Characteristics

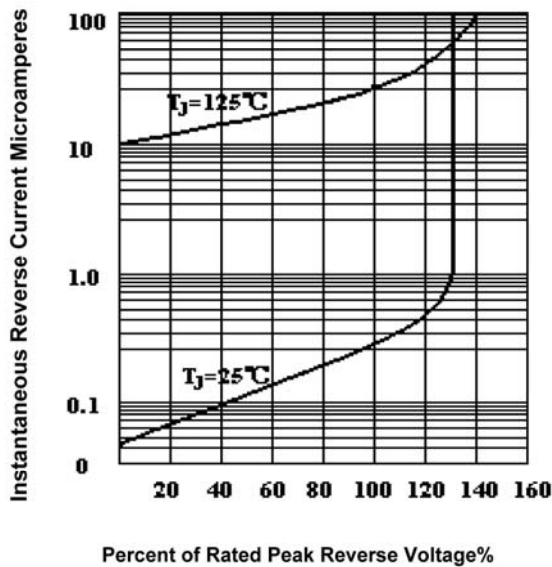


Fig.4 Forward Voltage

