Elektronische Bauelemente

D4SB10 ~ D4SB100

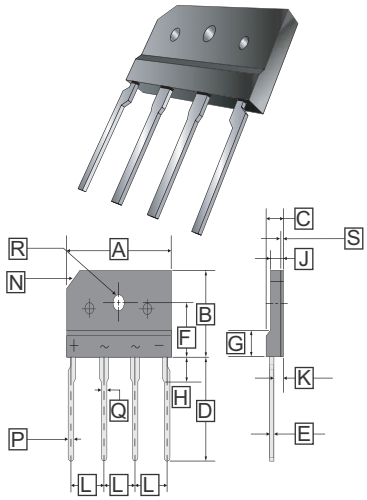
100 V ~ 1000 V

6.0 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
- 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 guaranted：260°C / 10 seconds
- 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_A=25℃ unless otherwise noted)

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		D4SB 10	D4SB 20	D4SB 40	D4SB 60	D4SB 80	D4SB 100	
Maximum repetitive voltage	V_{RM}	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage @T_A=25°C	I_R	10						μA
@T_A=125°C		500						
Average rectified forward current 60Hz Sine wave Resistance load @T_C=100°C	I_O	6 (1)						A
@T_A=25°C		2.8 (2)						
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	I_{FSM}	150						A
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	1.1						V
Dielectric strength terminals to case, AC 1 minute Current 1mA	Vdia	2.5						KV
Maximum thermal Resistance per leg on P.C.B without heat-sink	$R_{\theta JA}$	22 (2)						°C / W
on Al plate heat-sink	$R_{\theta JC}$	3.4 (1)						
Operating and Storage Temperature Range	T_J , T_{STG}	150 , -40 ~ 150						°C

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}

CHARACTERISTIC CURVES

Fig. 1 derating Curve

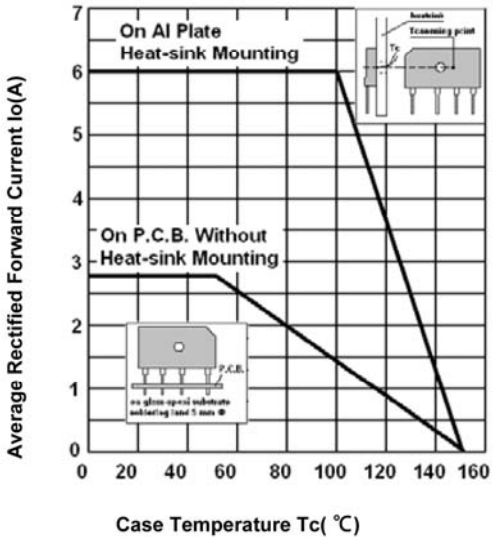


Fig.2 Typical Reverse Characteristics

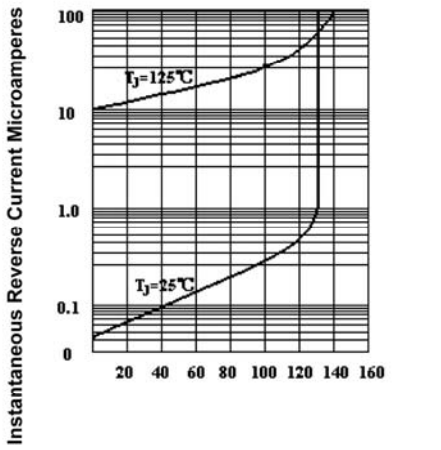


Fig.3 Peak Surge Forward capability

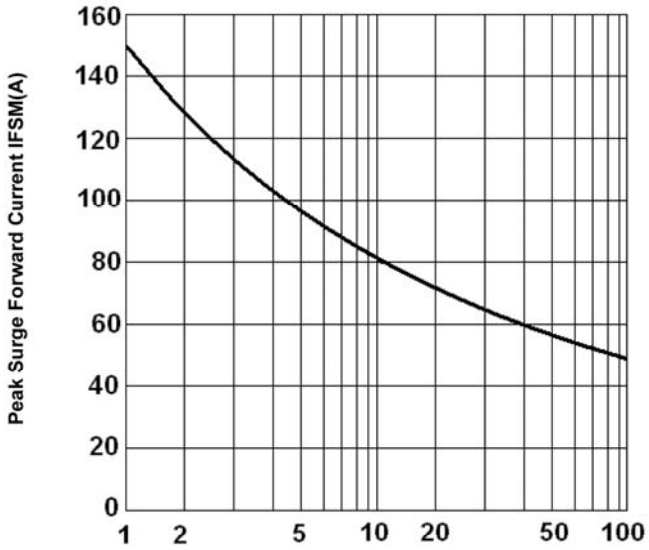


Fig.4 Forward Voltage