

DATA SHEET

D25SB80 LV

D25 800V

Customer Signature

9 614000

www.share-leshan.com.cn

0833-2595818/2595870/2599163

0833-2595622

25A

Features

Glass passivated chip

Low Reverse Leakage Current
350

High surge current capability to 350 Amperes

UL 94V-0 UL E249161

Plastic material has Underwriters Laboratory flammability recognition 94V-0 Recognized File # E249161



ROHS

ROHS compliance

260 5 /10 2.3 Kgf.cm

High temperature soldering guaranteed: 260 5 /10 seconds (2.3 Kgf.cm)tension

Mechanical Data

Case : Molded plastic case

Polarity : Polarity symbols being marked on body
6.8

Weight : About 6.8grams

Maximum Ratings Parameter @ Ta = 25 unless otherwise noted					
Noun interpretation	Conditions		Symbol	08	Unit
Maximum Recurrent Peak Reverse Voltage			V_{RRM}	800	V
Reverse non-repetitive peak voltage			V_{RSM}	900	V
Maximum DC Blocking Voltage			V_{DC}	800	V
Average Rectified Output Current	50Hz 50Hz sine wave load	,TC=85 with heatsink, TC=85	$I_{(AV)}$	25	A
		Ta=25 without heatsink, Ta =25		3.5	
Peak Surge Forward Current	50HZ , Tj=25 50HZ sine wave,1 cycle , Tj=25		I_{FSM}	350	A
Rating for fusing	1ms<t<8.3ms,Tj=25 1ms<t<8.3ms,Tj=25 Rating of per diode		I^2t	508	A ² s
Junction temperature			TJ	-55 +150	
Storage Temperature			T _{STG}	-55 +150	
Dielectric Strength	1 Terminals to case AC 1 minute		V _{ids}	2.5	KV
Mounting torque	5kg cm recommend torque 5kg cm		Tor	8	Kg.cm
Electrical Characteristics Ta=25 Unless otherwise specified					
Peak Forward Voltage	IF=12.5A IF=12.5A,Pulse measurement, Rate of per diode		V_F	0.92	V
Peak Reverse Current	VR=VRRM, VR=VRRM, Pulse measurement Rating of per diode		I_R	5	A
				500	
Thermal resistance	Junction to ambient without heatsink		R_{JA}	22	
	Junction to case with heatsink		R_{JC}	1.0 ⁽¹⁾	
1 100mm 100mm 1.6mm Device mounted on 100mm x 100mm x 1.6mm Al Plate Heatsink					

D25A

FIG.1 . Derating Curve For Output Rectified Current

1.

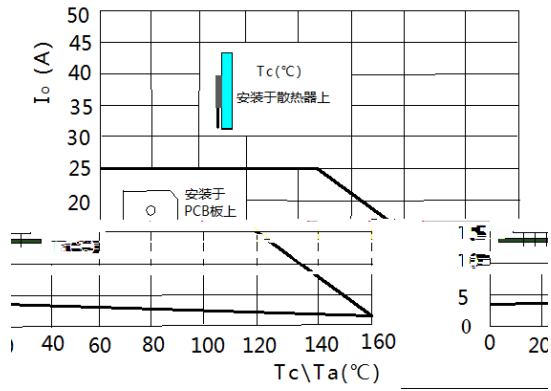


FIG.2 . Maximum Non-Repetitive Peak Orward Surge Current Per Bridge Element

2.

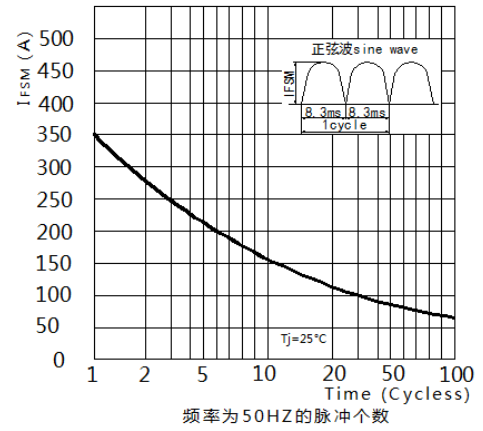


FIG3. Typical Reverse Characteristics Per Bridge Element

3.

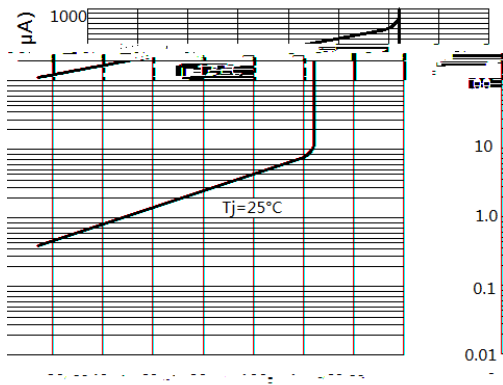


FIG4. Typical Forward Characteristics Per Bridge Element

4.

