

2A,60V Schottky Barrier Rectifier

Features

- Low leakage current
- Schottky barrier diode
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260°C/10 seconds



Applications

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	LS26	Unit	
Maximum repetitive peak reverse voltage	Vrrm	60	V	
Maximum RMS voltage	Vrms	42	V	
Maximum DC blocking voltage	V _{DC}	60	V	
Maximum average forward rectified current	lf(AV)	2	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	50	A	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Ambient	Reja	85	°C /W	
Thermal Resistance, Junction to Case	Rejc	15	°C /W	
Thermal Resistance, Junction to Lead	R _{θJL}	18	°C /W	



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Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Мах	Unit	
Forward Drop V _F		I⊧=1A T _A =25℃	0.48	0.60		
	VF	I⊧=2A T _A =25℃	0.58	0.70	V	
		I⊧=2A T₄=125℃	0.53	-		
Reverse leakage current @V _R	1_	TJ =25℃	0	.5		
	IR	TJ=125℃	5	0	mA	
Typical junction capacitance	CJ	4.0 V 1 MHZ	1-	10	pF	

Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



Ratings and Characteristics Curves

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

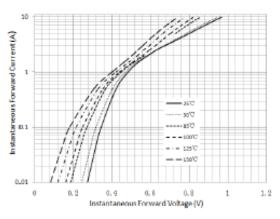


Figure 1. Typical Instantaneous Forward Characteristics

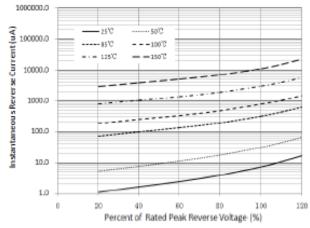


Figure 3. Typical Reverse Characteristics

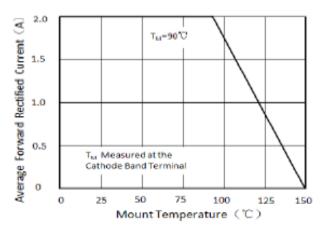


Figure 5.Forward Current Derating Curve

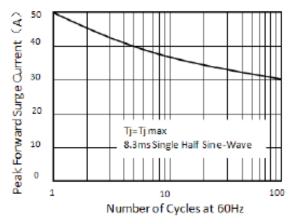


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

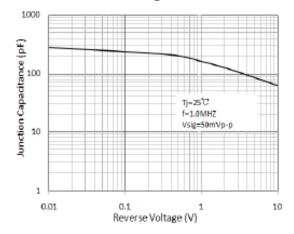


Figure 4. Typical Junction Capacitance

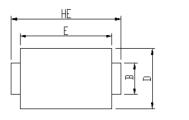


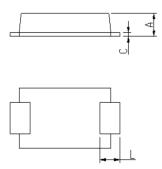
Package Outline Dimensions

in inches (millimeters)

eSGB (DO-221AC)

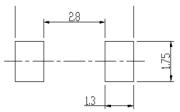
<u>A1</u>





DIM	Unit:	mm	Unit:	inch
	MIN	MAX	MIN	MAX
Α	0.92	1.08	0.036	0.043
A1	0	0.1	0.000	0.004
В	1.25	1.45	0.049	0.057
С	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
Е	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205

Soldering footprint



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.12	Modify document format
Rev.C	2023.12.29	Modify package name



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