

2A,100V 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 ℃/10 seconds



eSGB (DO-221AC)

Applications

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

Maximum Ratings & Electrical Characteristics(T _A =25°C unless otherwise noted)				
Parameter	Symbol	LS2B	Unit	
Maximum repetitive peak reverse voltage	V _{RRM}	100	٧	
Maximum RMS voltage	V _{RMS}	70	٧	
Maximum DC blocking voltage	V _{DC}	100	٧	
Maximum average forward rectified current	I _{F(AV)}	2	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	45	Α	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	T _{STG}	-55 to +150	°C	

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Ambient	R _{thJA}	85	°C /W		
Thermal Resistance, Junction to Case	R _{thJC}	15	°C /W		
Thermal Resistance, Junction to Lead	RthJL	18	°C /W		



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Electrical Specifications(T _A =25°C unless otherwise noted)					
Parameter	Symbol	Test Conditions	LS2B	Unit	
Maximum forward drop voltage	V _F	I _F =2A	0.81	V	
Maximum reverse leakage current @V _R	I _R	T」=25°C	0.5	mA	
Typical junction capacitance	Сл	V _R =4.0V, f=1MHZ	60	pF	

Note:

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



Ratings and Characteristics Curves (TA = 25°C unless otherwise noted)

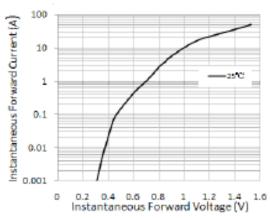


Figure 1. Typical Instantaneous Forward Characteristics

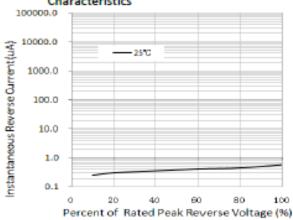


Figure 3. Typical Reverse Characteristics

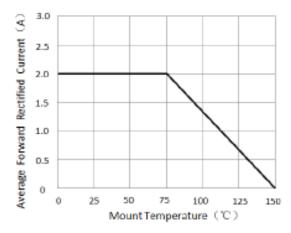


Figure 5.Forward Current Derating Curve

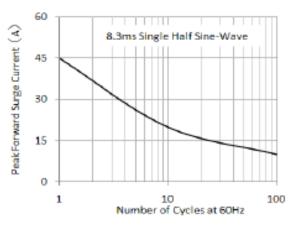


Figure 2.Maximum Non-Repetitive

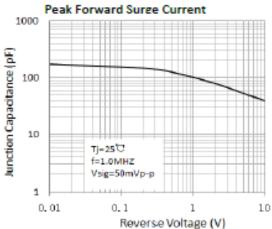


Figure 4. Typical Junction Capacitance

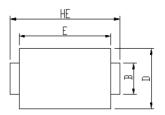




Package Outline Dimensions

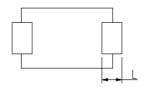
in inches (millimeters)

eSGB (DO-221AC)



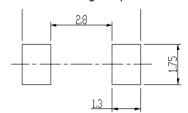






DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
Α	0.92	1.08	0.036	0.043
A1	0	0.1	0.000	0.004
В	1.25	1.45	0.049	0.057
С	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
Е	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205

Soldering footprint





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