

2A,150-200V Schottky Barrier Rectifiers

Features

- Low leakage current
- Schottky barrier diodes
- 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	FS2B5H FS2CH		Unit	
Maximum repetitive peak reverse voltage	Vrrm	150	200	V	
Maximum RMS voltage	V _{RMS}	105	140	V	
Maximum DC blocking voltage	V _{DC}	150	200	V	
Maximum average forward rectified current	I _{F(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	100	°C /W	
Thermal Resistance, Junction to Case	Rejc	20	°C /W	
Thermal Resistance, Junction to Lead	$R_{ heta JL}$	20	°C /W	



Electrical Specifications(TA=25°C unless otherwise noted)					
Parameter	Symbol	Test Conditions	FS2B5H	FS2CH	Unit
Forward Drop Voltage	V _F	I⊧=2A	0.8	35	V
Reverse leakage current @V _R	IR	TJ =25℃	0.	0.2	
		T」=125℃	3	0	- mA

Note:

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



FS2B5H thru FS2CH

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Ratings and Characteristics Curves

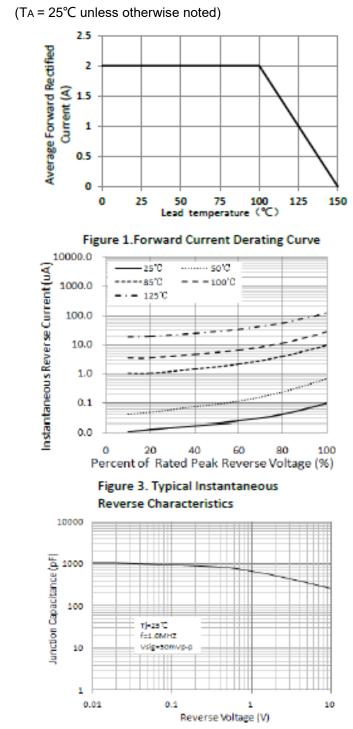
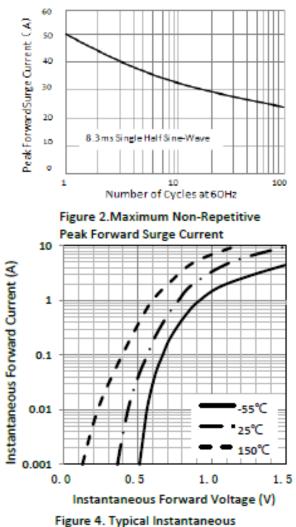


Figure 5. Typical Junction Capacitance



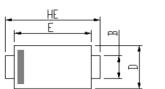
Forward Characteristics



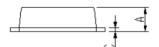
Package Outline Dimensions

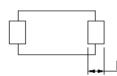
in inches (millimeters)

eSGA (SOD-123FL)



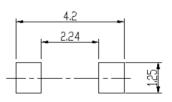






DIM	Unit: mm		Unit:	inch
	MIN	MAX	MIN	MAX
А	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
в	0.85	1.05	0.033	0.041
O	0.1	0.25	0.004	0.010
D	1.7	2	0.067	0.079
ш	2.9	3.1	0.114	0.122
L	0.43	0.83	0.017	0.033
HE	3.5	3.9	0.138	0.154

Soldering footprint



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.11	Modify document format



FS2B5H thru FS2CH

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