

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	FS26	Unit
Maximum repetitive peak reverse voltage	Vrrm	60	V
Maximum RMS voltage	V _{RMS}	42	V
Maximum DC blocking voltage	V _{DC}	60	V
Maximum average forward rectified current	IF(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	Tstg	-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 _{θJL}	20	°C /W



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Electrical Specifications(TA=25°C unless otherwise noted)				
Parameter	Symbol	Test Conditions	FS26	Unit
Forward Drop Voltage	VF	I⊧=2A	0.70	V
Reverse leakage current @V _R		TJ =25℃	0.2	
	IR	T」=125℃	30	mA
Typical junction capacitance	CJ	4.0 V 1 MHZ	645	pF

Note:

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



Ratings and Characteristics Curves

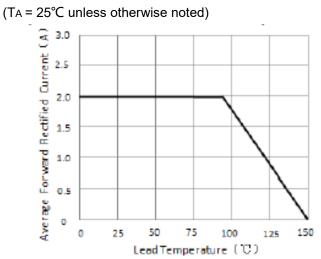


Figure 1.Forward Current Derating Curve

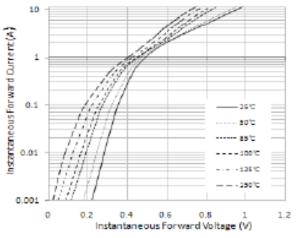


Figure 3. Typical Instantaneous Forward Characteristics

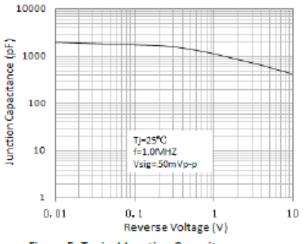


Figure 5. Typical Junction Capacitance

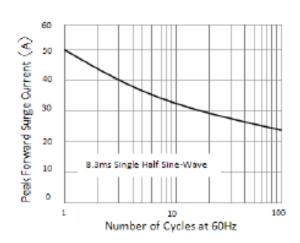
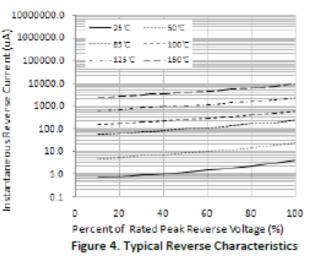


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

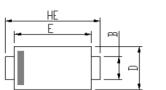




Package Outline Dimensions

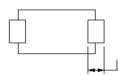
in inches (millimeters)

eSGA (SOD-123FL)



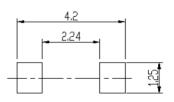






DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
А	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
в	0.85	1.05	0.033	0.041
O	0.1	0.25	0.004	0.010
D	1.7	2	0.067	0.079
ш	2.9	3.1	0.114	0.122
L	0.43	0.83	0.017	0.033
ΗE	3.5	3.9	0.138	0.154

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



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