

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
- AEC-Q101 Qualified



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	AFS26	Unit	
Maximum repetitive peak reverse voltage	V _{RRM}	60	V	
Maximum RMS voltage	V _{RMS}	42	V	
Maximum DC blocking voltage	V _{DC}	60	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	IFSM	50	A	
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	RthJA	100	°C /W		
Thermal Resistance, Junction to Case	R _{thJC}	20	°C /W		
Thermal Resistance, Junction to Lead	R _{thJL}	20	°C /W		



Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	AFS26	Unit		
Maximum forward drop voltage	VF	I⊧=2A	0.70	V		
Maximum reverse leakage current @V _R	IR	T _J =25°C	0.2	mA		
		TJ=125°C	30			
Typical junction capacitance	CJ	V _R =4.0V, f=1MHZ	645	pF		

Note:

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



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

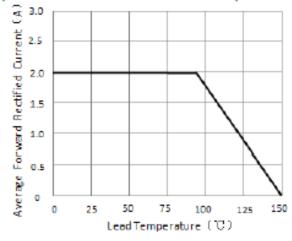


Figure 1.Forward Current Derating Curve

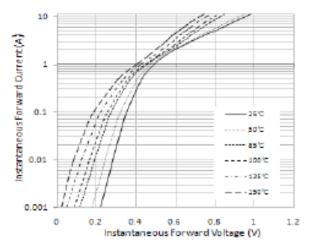


Figure 3. Typical Instantaneous Forward Characteristics

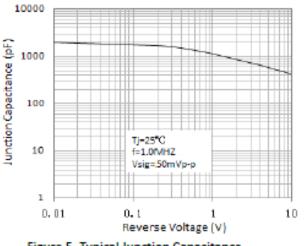


Figure 5. Typical Junction Capacitance

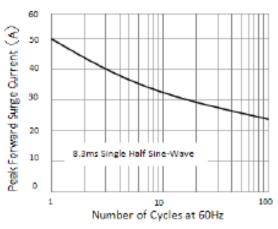
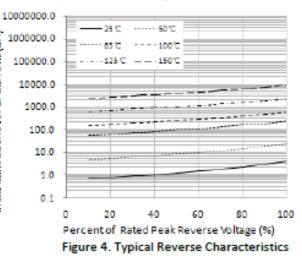


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current



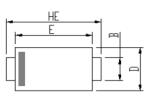
Instantane ous Reverse Current (uA)



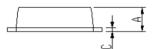
Package Outline Dimensions

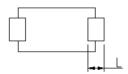
in inches (millimeters)

eSGA (SOD-123FL)



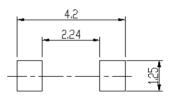






DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
А	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
В	0.85	1.05	0.033	0.041
С	0.1	0.25	0.004	0.010
D	1.7	2	0.067	0.079
E	2.9	3.1	0.114	0.122
L	0.43	0.83	0.017	0.033
HE	3.5	3.9	0.138	0.154

Soldering footprint





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