

# 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 <sub>A</sub> =25°C unless otherwise noted)				
Parameter	Symbol	AFS26	Unit	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	60	V	
Maximum RMS voltage	V <sub>RMS</sub>	42	V	
Maximum DC blocking voltage	V <sub>DC</sub>	60	V	
Maximum average forward rectified current	I <sub>F(AV)</sub>	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 <sub>STG</sub>	-55 to +150	°C	

Thermal-Mechanical Specifications (T <sub>A</sub> =25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Ambient	RthJA	100	°C /W		
Thermal Resistance, Junction to Case	R <sub>thJC</sub>	20	°C /W		
Thermal Resistance, Junction to Lead	R <sub>thJL</sub>	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 <sub>R</sub>	IR	T <sub>J</sub> =25°C	0.2	mA		
		TJ=125°C	30			
Typical junction capacitance	CJ	V <sub>R</sub> =4.0V, f=1MHZ	645	pF		

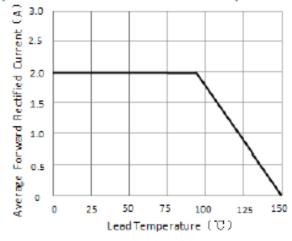
Note:

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



AFS26 GOOD-ARK Electronics

## Ratings and Characteristics Curves (T<sub>A</sub>=25°C unless otherwise noted)



#### Figure 1.Forward Current Derating Curve

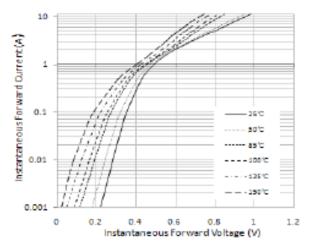


Figure 3. Typical Instantaneous Forward Characteristics

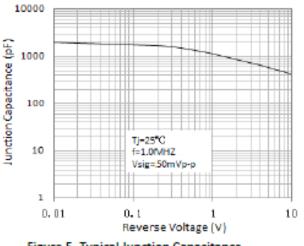
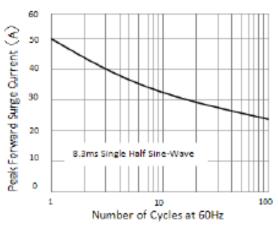
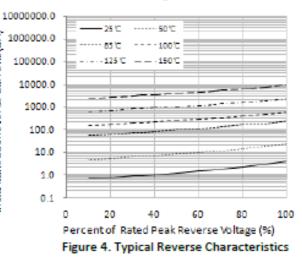


Figure 5. Typical Junction Capacitance



#### Figure 2.Maximum Non-Repetitive Peak Forward Surge Current



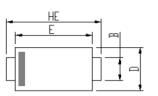
Instantane ous Reverse Current (uA)



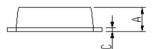
## Package Outline Dimensions

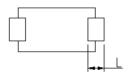
in inches (millimeters)

# eSGA (SOD-123FL)



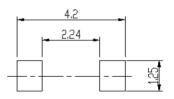






DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
А	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
В	0.85	1.05	0.033	0.041
С	0.1	0.25	0.004	0.010
D	1.7	2	0.067	0.079
E	2.9	3.1	0.114	0.122
L	0.43	0.83	0.017	0.033
HE	3.5	3.9	0.138	0.154

#### Soldering footprint





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