



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
- 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	AFS2BH	Unit				
Maximum repetitive peak reverse voltage	V_{RRM}	100	V				
Maximum RMS voltage	V _{RMS}	70	V				
Maximum DC blocking voltage	V _{DC}	100	V				
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	50	A				
Operating junction temperature range	TJ	-55 to +175	°C				
Storage temperature range	T _{STG}	-55 to +175	°C				

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R _{thJA}	100	°C /W				
Thermal Resistance, Junction to Case	R _{thJC}	20	°C /W				
Thermal Resistance, Junction to Lead	R _{thJL}	20	°C /W				



AFS2BH GOOD-ARK Electronics

Electrical Specifications(T _A =25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions AFS2BH		Unit				
Maximum forward drop voltage	V _F	I _F =2A	0.85	V				
Maximum reverse leakage current @V _R	IR	T _J =25°C	0.2	- A				
		T _J =125°C	30	mA				
Typical junction capacitance	Сл	V _R =4.0V, f=1MHZ	53	pF				

Note:

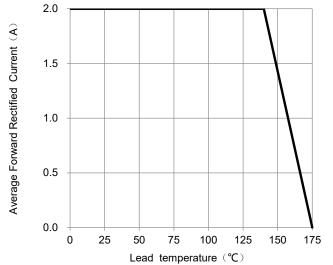
1.Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.

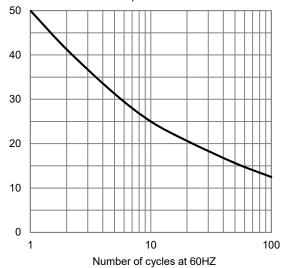


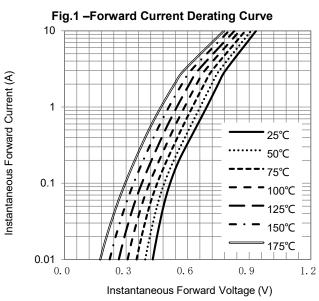




Peak Forward Surge Current(A)







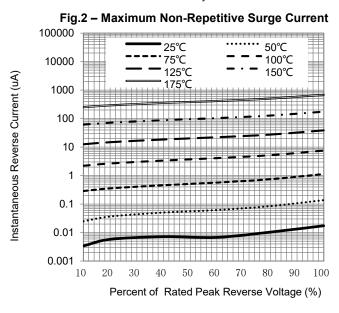


Fig.3 - Typical Forward Voltage Characteristics

Fig.4 – Typical Reverse Current Characteristics

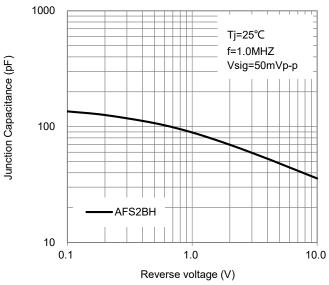


Fig.5 - Typical Junction Capacitance

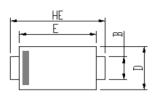




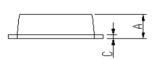
Package Outline Dimensions

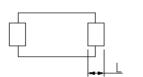
in inches (millimeters)

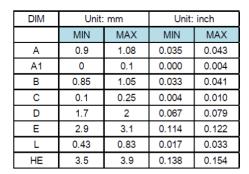
eSGA (SOD-123FL)



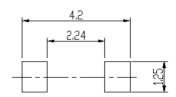








Soldering footprint







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