

Surface Mount Schottky Rectifier Reverse Voltage 20~200V Forward Current 1A

<u>Features</u>

- · Low VF Schottky barrier diodes
- Very low profile typical height of 1.0 mm
- Low forward voltage drop
- · Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260°C/10 seconds
- · Halogen-free according to IEC 61249-2-21 definition

Typical Applications



COMPLIANT

eSGA (SOD-123FL)

power supplies and other consumer applications.								
Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter	Symbol	FS12	FS13	FS14	FS16	FS1B	FS1B	

For use of fast swiching in RF module, lighting, cellular phone, portable device,

Parameter	Symbol	FS12	FS13	FS14	FS16	FS1B	FS1B5H	FS1CH	Unit
Maximum repetitive peak reverse voltage	VRRM 20 30 40 60 100 150		200	V					
Maximum RMS voltage	VRMS 14 21 28 42 70 105 14		140	V					
Maximum DC blocking voltage	VDC 20 30 40 60 100 150 200		200	V					
Maximum average forward rectified current	IF(AV)	1.0				А			
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	IFSM	30.0				А			
Operating junction temperature range	TJ	- 55 to + 150 - 55 to + 175		°C					
Storage temperature range	TSTG	- 55 to + 150			°C				

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	FS12	FS13	FS14	FS16	FS1B	FS1B5H	FS1CH	Unit
Maximum instantaneous	IF=0.5A,TA=25℃	V _F	0.40 0.45		45	0.55	0.75	0.80		Volts
forward voltage	orward voltage IF=1 A,TA=25°C VF		0.50		0.70	0.81	0.90		VUILS	
Maximum DC reverse current at	TA=25°C	I _R	200	20	00	200	150	20	0	uA
rated DC blocking voltage	TA=125°C		10	30		20			mA	
	juntion to ambient	R _{eja}	90							
Typical thermal resistance ¹⁾	juntion to case	R _{eJC}	60							°C/W
	juntion to mount	R _{ejm}	20							

Note:1),The thermal resistance from junction to ambient,case or mount,mounted on P.C.B with 5x5mm copper pads,2 OZ,FR4 PCB



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Ratings and Characteristics Curves

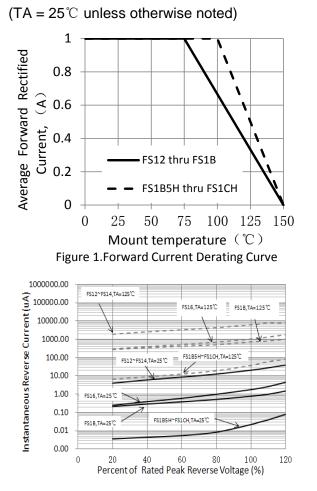


Figure 3. Typical Instantaneous Reverse Characteristics

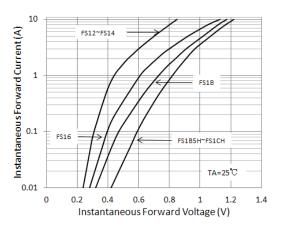
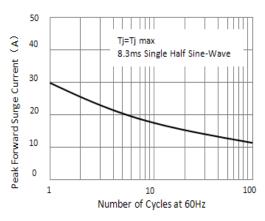
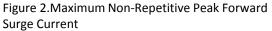


Figure 5. Typical Instantaneous Forward Characteristics





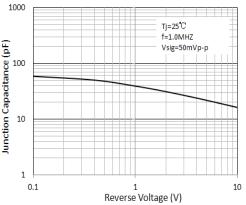
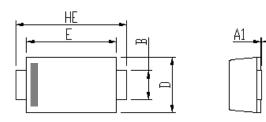


Figure 4. Typical Junction Capacitance



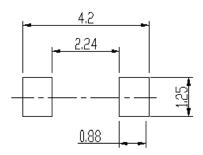
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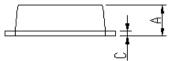
Package Outline Dimensions

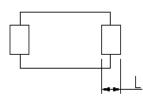


DIM	Unit:	mm	Unit: inch			
	MIN	MAX	MIN	MAX		
Α	0.9	1.08	0.035	0.043		
A1	0	0.1	0.000	0.004		
В	0.85	1.05	0.033	0.041		
С	0.1	0.25	0.004	0.010		
D	1.7	2	0.067	0.079		
E	2.9	3.1	0.114	0.122		
L	0.43	0.83	0.017	0.033		
HE	3.5	3.9	0.138	0.154		

Soldering footprint



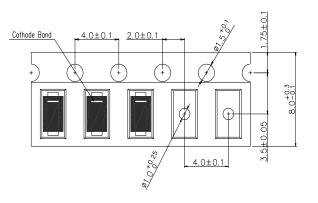




Packing Information

Packing quantities: 3000 pcs/Reel, 40 Reels/Box; 8mm Tape, 7" Reel

Tape & Reel Specification





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