

## Features

- Low forward voltage drop
- Very low profile - typical height of 1.0 mm
- 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



RoHS  
COMPLIANT



eSGA  
(SOD-123FL)

## Typical Applications

For use of fast switching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

<b>Maximum Ratings</b> (TA = 25 °C unless otherwise noted)			
Parameter	Symbol	FS24A	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IF(AV)	2.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	50	A
Operating junction temperature range	T <sub>J</sub>	- 55 to + 125	°C
Storage temperature range	T <sub>STG</sub>	- 55 to + 150	°C

<b>Electrical Characteristics</b> (TA = 25 °C unless otherwise noted)				
Parameter	Test Conditions	Symbol	FS24A	Unit
Maximum instantaneous forward voltage	IF=2A, TA=25°C	V <sub>F</sub>	0.50	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I <sub>R</sub>	500	uA
	TA=100°C		50	mA
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	120	pF
Typical thermal resistance <sup>1)</sup>	junction to ambient	R <sub>θJA</sub>	95	°C/W
	junction to mount	R <sub>θJM</sub>	35	

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



# FS24A

Surface Mount Schottky Rectifier  
Reverse Voltage 40V Forward Current 2A

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

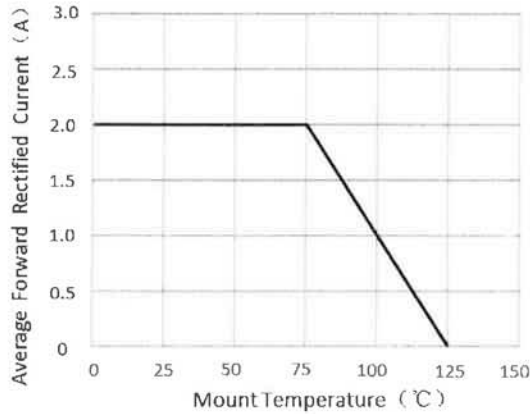


Figure 1. Forward Current Derating Curve

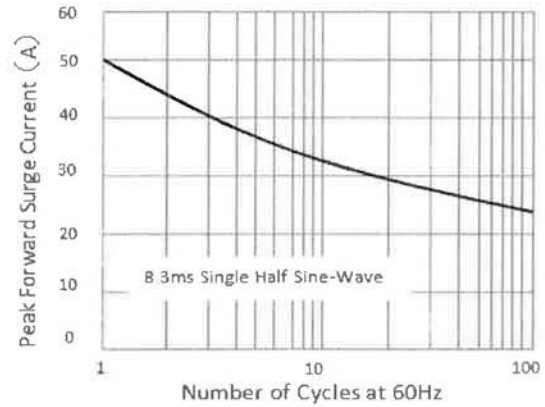


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

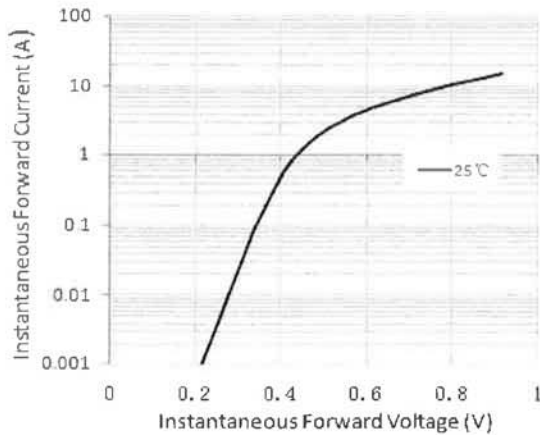


Figure 3. Typical Instantaneous Forward Characteristics

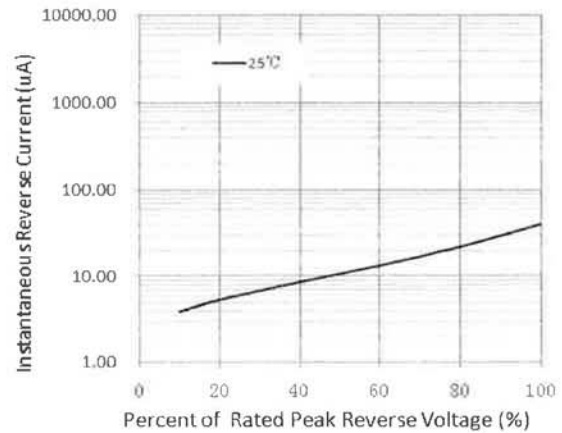


Figure 4. Typical Reverse Characteristics

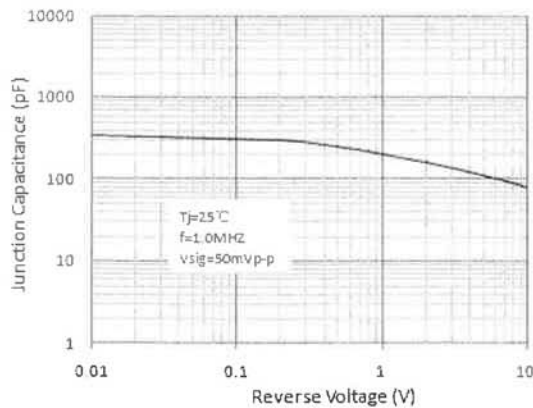
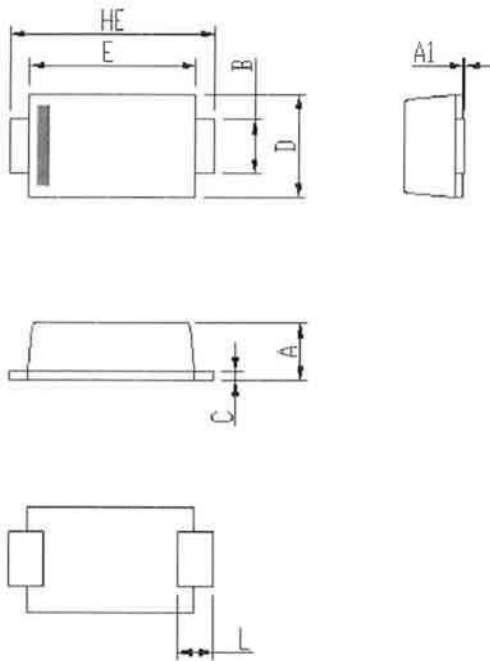


Figure 5. Typical Junction Capacitance

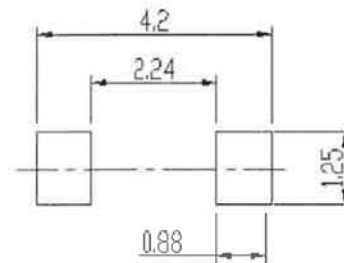
## Package Outline Dimensions

in inches (millimeters)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
B	0.85	1.05	0.033	0.041
C	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**

