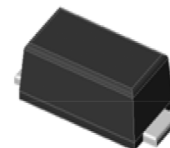


Features

- Glass passivated Standard Rectifiers
- Very low profile - typical height of 1.0 mm
- Ideal for automated placement
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds



RoHS
COMPLIANT



eSGA
(SOD-123FL)

Typical Applications

For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	F8A	F9A	F10A	Unit
Maximum repetitive peak reverse voltage	VRRM	1200	1500	2000	V
Maximum RMS voltage	VRMS	840	1050	1400	V
Maximum DC blocking voltage	VDC	1200	1500	2000	V
Maximum average forward rectified current	IF(AV)	1.0			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	30			A
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150			°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbol	F8A	F9A	F10A	Unit
Maximum instantaneous forward voltage	1.0A , TA=25°C	V _F	1.1			Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5			µA
Typical junction capacitance	4.0 V, 1 MHz	C _J	5.4			pF
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA}	70			°C/W

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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

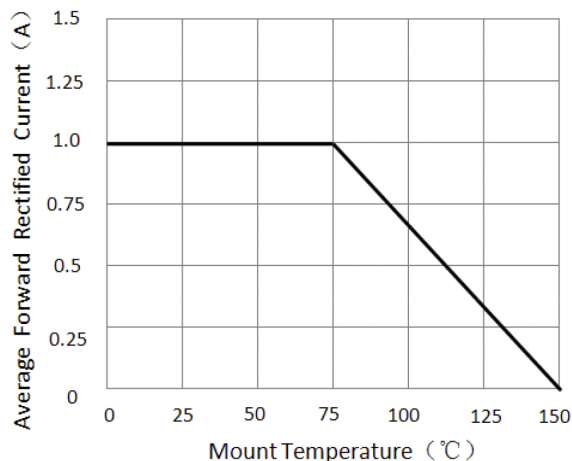


Figure 1. Forward Current Derating Curve

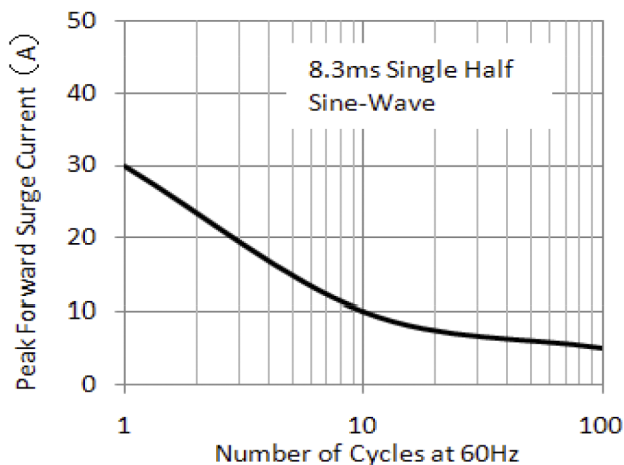


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

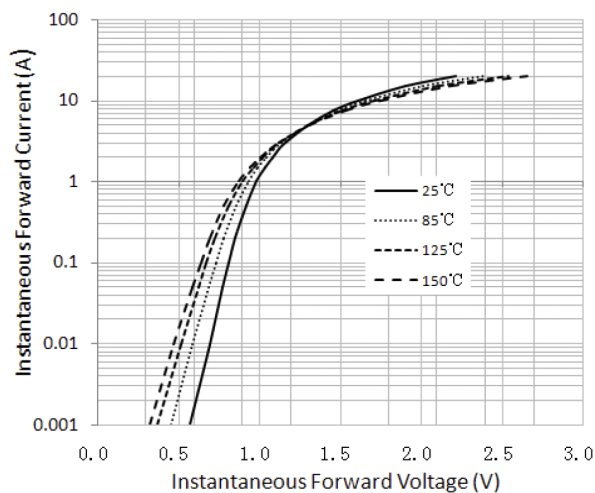


Figure 3. Typical Instantaneous Forward Characteristics

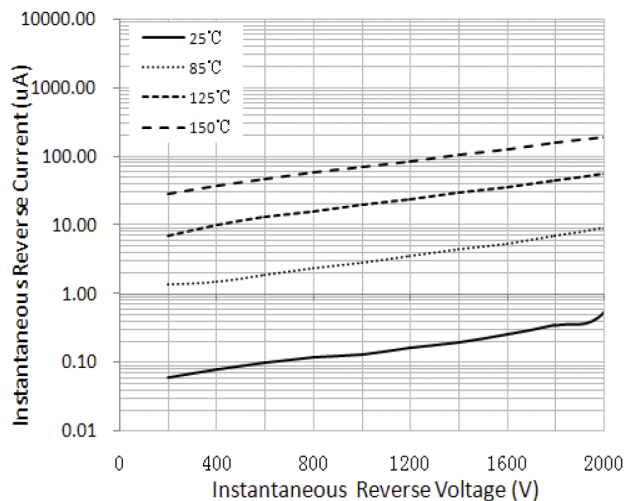
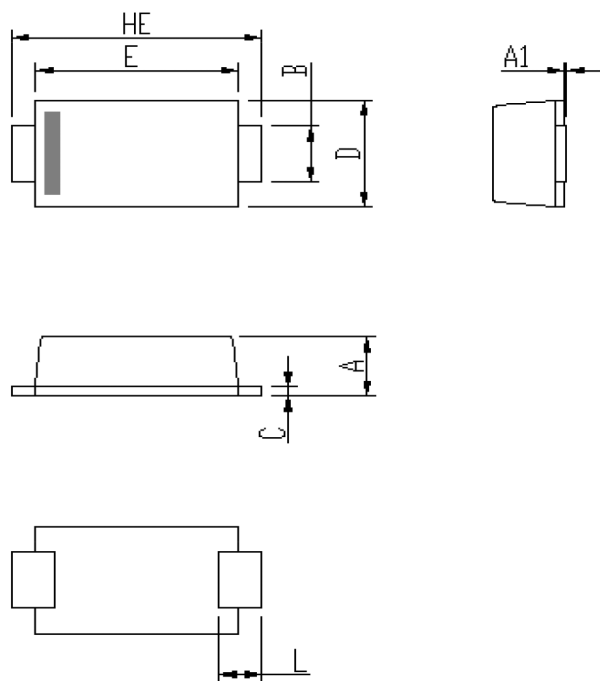


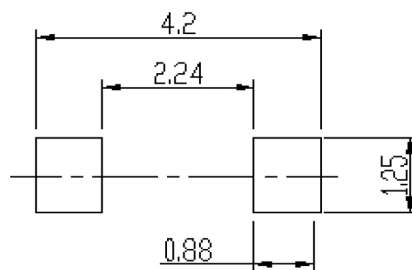
Figure 4. Typical Reverse Characteristics

Package Outline Dimensions



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

