

## **Surface Mount Glass Passivated Fast Recovery Rectifier**

### SOD-123FL(eSGA)



Primary characteristics				
I <sub>F(AV)</sub>	1.5A			
$V_{RRM}$	1000V			
I <sub>FSM</sub>	50A			
I <sub>RM</sub>	5uA			

 $V_{FM}$  at  $I_F=1.5A$ 

T<sub>J</sub> max.

#### **Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

## **Applications**

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

#### Mechanical data

- SOD-123FL(eSGA)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- · Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

# Maximum rating (Ta=25°C unless otherwise noted)

1.3V

150 °C

Devementer		Cress	SOD-123FL(eSGA)	1114
Parameter		Sym	RS1510FL	Unit
Max. repetitive peak reverse voltage		V <sub>RRM</sub>	1000	V
Max. RMS reverse voltage		V <sub>RMS</sub>	700	V
Max. DC blocking voltage		V <sub>DC</sub>	1000	V
Max. average forward current		I <sub>F(AV)</sub>	1.5	А
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I <sub>FSM</sub>	50	А
Max. instantaneous forward voltage drop per diode		V <sub>FM</sub>	1.3 (1.5A)	V
Max. instantaneous reverse current	Ta=25 °C		5	
at rated DC blocking voltage	Ta=125 °C	I <sub>RM</sub>	50	μA
Operating junction temperature		TJ	-55 ~ +150	°C
Storage temperature		T <sub>STG</sub>	-55 ~ +150	°C
Maximum reverse recovery time (Note2)		trr	500	nS
		R J-A	70	
Typical thermal resistance (Note1)		R <sub>Ј-М</sub>	5	°C/W
		R <sub>J-C</sub>	30	

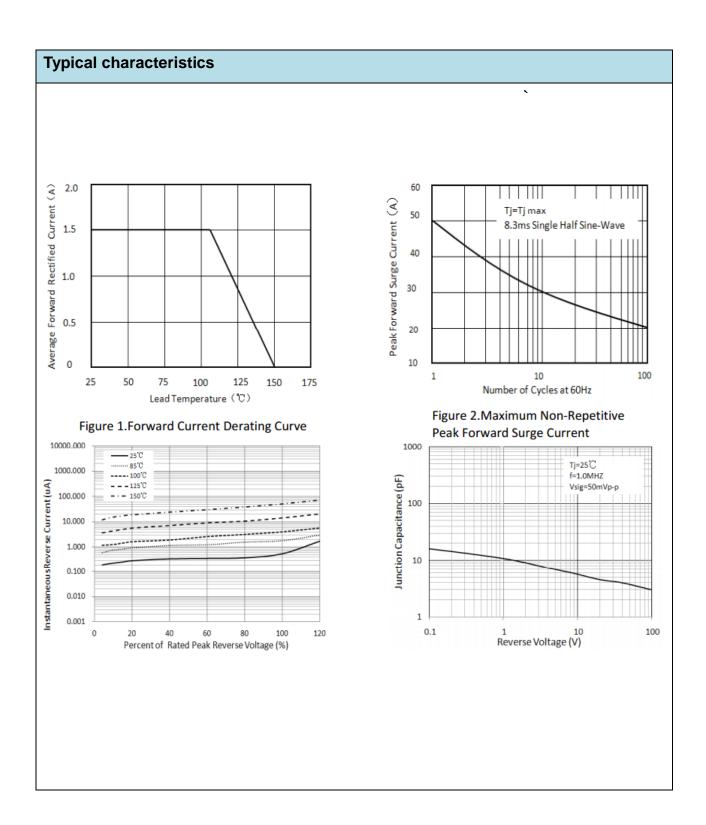
#### Notes:

- 1 Mounted on PCB with 5.0×5.0mm copper pads,2 OZ,FR4 PCB
- 2 Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A



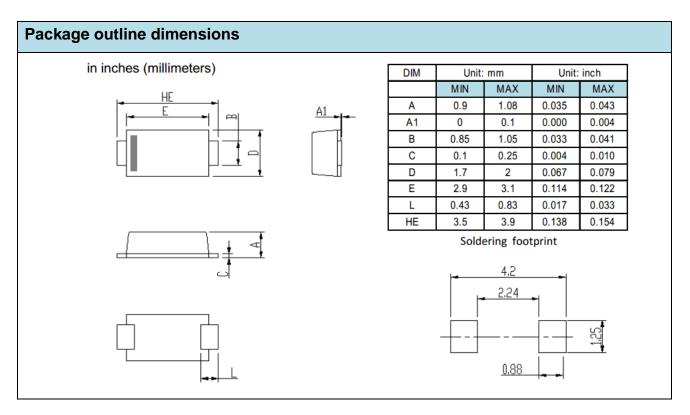
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Ordering information (Example)						
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE		
RS1510FL						





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