

**RS1210FL****Surface Mount Glass Passivated Fast Recovery Rectifier
Reverse Voltage 1000V Forward Current 1.2A**

Features

- Glass passivated Fast Recovery rectifiers
- 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

RoHS
COMPLIANTeSGA
(SOD-123FL)

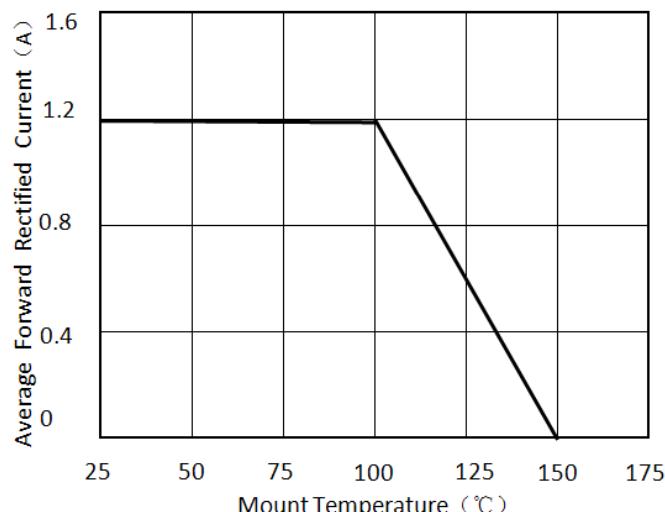
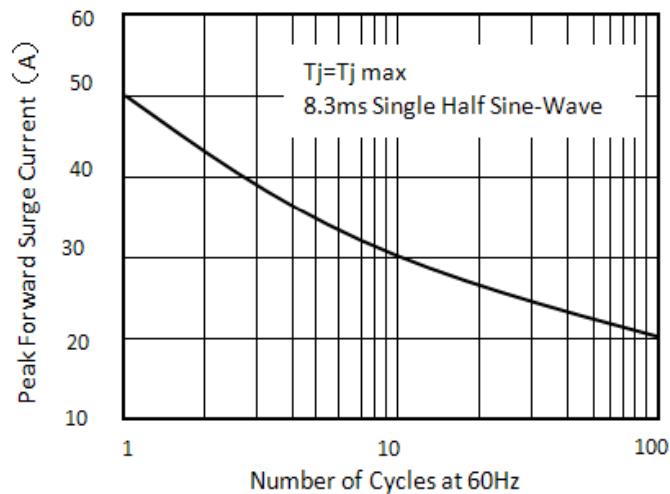
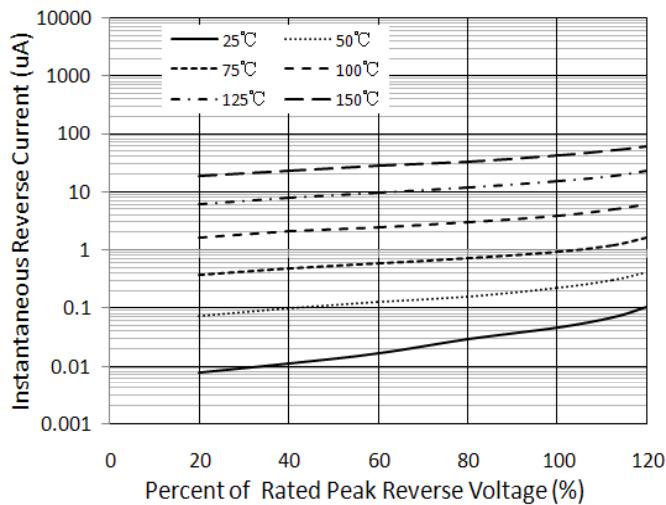
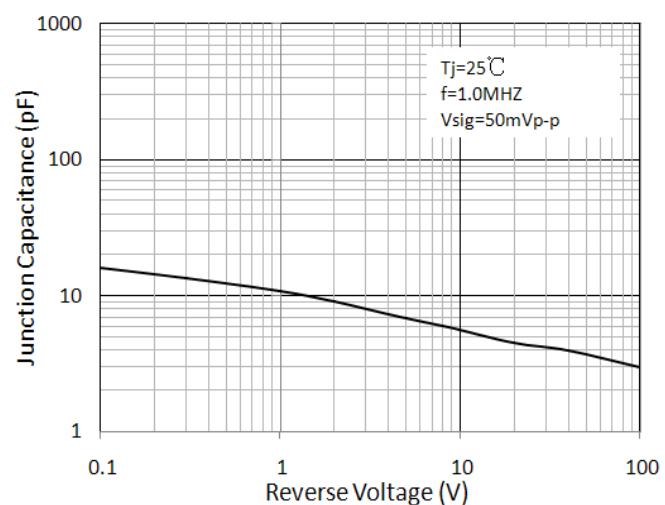
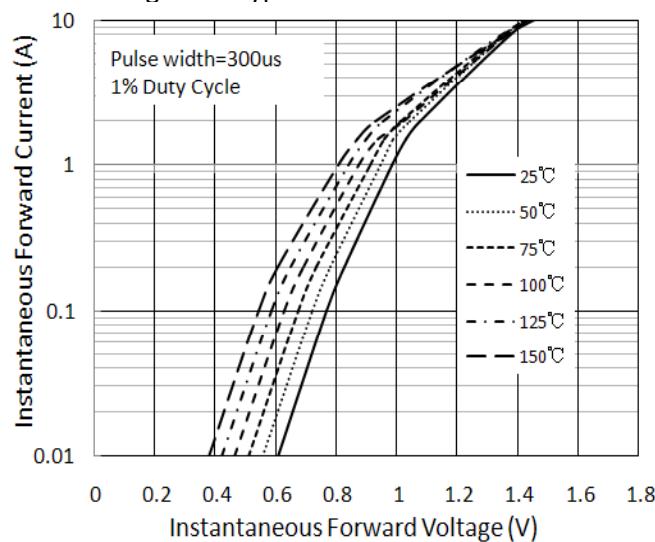
TYPICAL APPLICATIONS

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

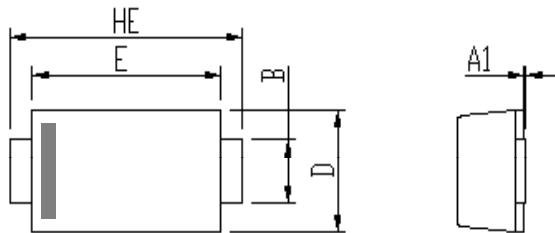
MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	RS1210FL	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC blocking voltage	V _{DC}	1000	V
Maximum average forward rectified current	I _{F(AV)}	1.2	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50	A
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150	°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)				
PARAMETER	TEST CONDITIONS	SYMBOL	RS1210FL	UNIT
Maximum instantaneous forward voltage	1 .2A	V _F	1.3	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25 TA=125	I _R	5 50	µA
Maximum reverse recovery time	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}	250	nS
Typical junction capacitance	4.0 V, 1 MHz	C _J	7.5	pF
Typical thermal resistance	junction to mount	R _{θJM} ¹⁾	3.3	°C/W
	junction to ambient	R _{θJA} ¹⁾	67	
	junction to case	R _{θJC} ¹⁾	25	

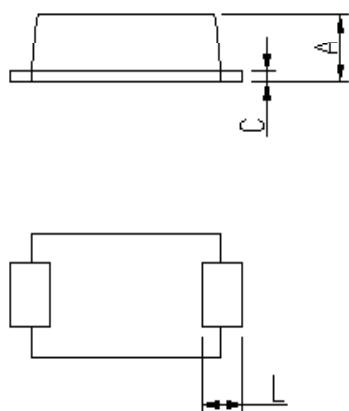
Note1): Mounted on PCB with 5.0×5.0mm copper pads, 2 OZ, FR4 PCB;

RATINGS AND CHARACTERISTICS CURVES

Figure 1. Forward Current Derating Curve

Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

Figure 3. Typical Reverse Characteristics

Figure 4. Typical Junction Capacitance

Figure 5. Typical Instantaneous Forward Characteristics

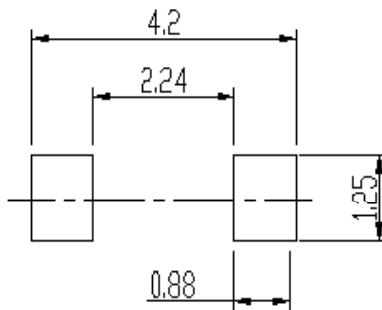
PACKAGE OUTLINE DIMENSIONS



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

