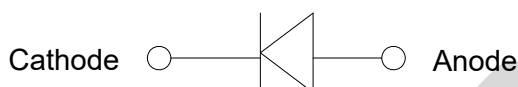
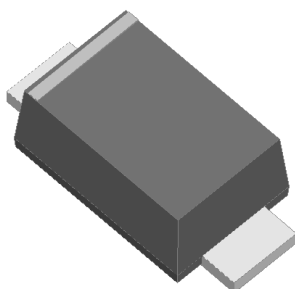


SCHOTTKY BARRIER RECTIFIER

SOD-123 SS14FL-SS115FL



Features

- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbols	SS14FL	SS16FL	SS110FL	SS115FL	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	40	60	100	150	V
Maximum RMS voltage	VRMS	28	42	70	105	V
Maximum DC Blocking Voltage	VDC	40	60	100	150	V
Average Rectified Output Current	Io	1.0				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30				A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	3.7				A ² S
Maximum Forward Voltage at 1.0 A	VF	0.55	0.70	0.80	0.95	V
Maximum DC Reverse Current @TA=25 °C	IR	100		10		μA
Operating and Storage Temperature Range	TJ	-55 ~ +125	-55 ~ +150			°C
Operating and Storage Temperature Range	TSTG	-55 ~ +125	-55 ~ +150			°C
(1) Pulse test: 300 μs pulse width, 1 % duty cycle	RthJL	25				°C/W
(2) Pulse test: Pulse width ≦ 40 ms	RthJA	80				

Notes: (1) Pulse test: 300 μs pulse width, 1 % duty cycle

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

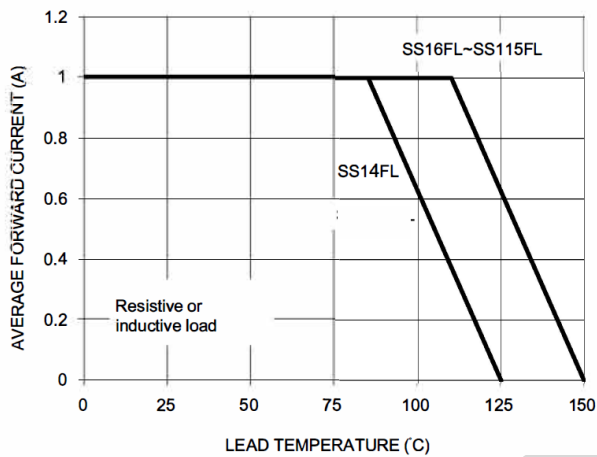


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

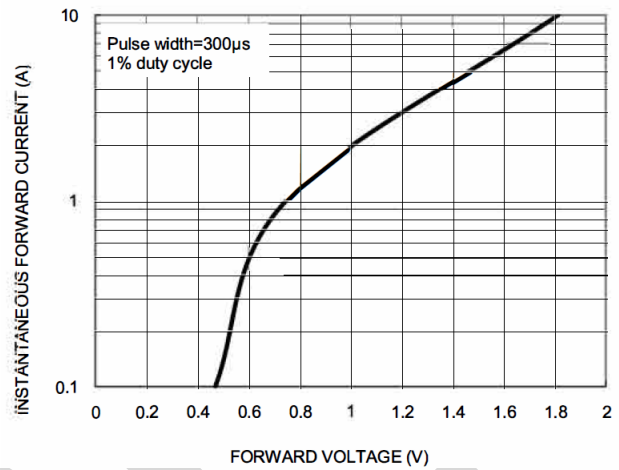


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



FIG. 4 TYPICAL REVERSE CHARACTERISTICS

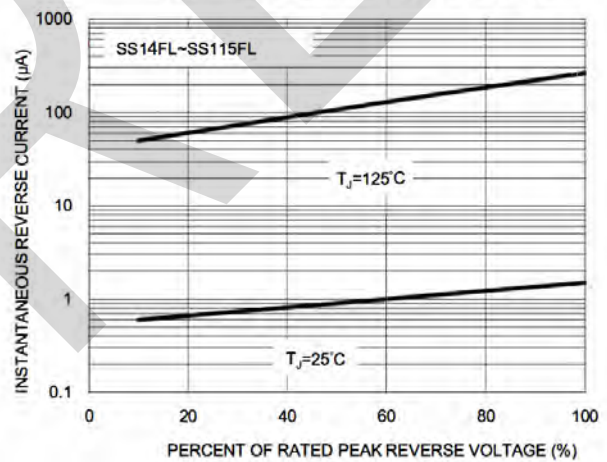
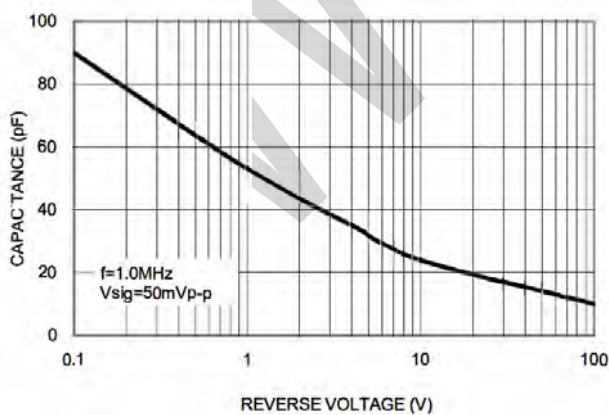
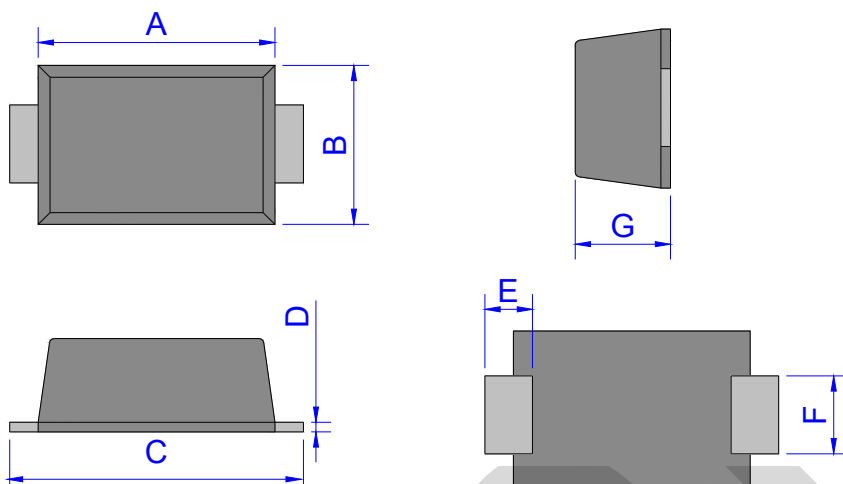


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

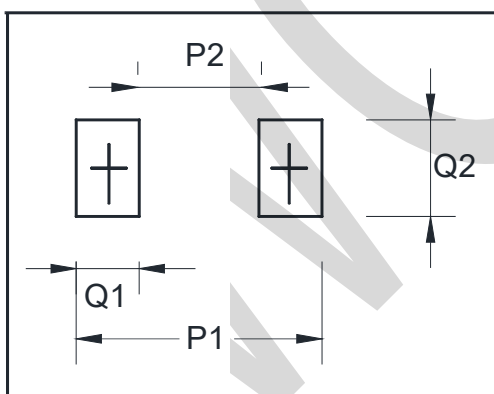
Note:unit mm(Mil)



SOD-123 Mechanical Data

UNIT		A	B	C	D	E	F	G
mm	max	3.0	2.0	3.95	0.25	0.9	1.2	1.35
	min	2.6	1.6	3.45	0.1	0.3	0.8	0.95
mil	max	118.1	78.7	155.5	9.8	35.4	47.2	53.1
	min	102.4	63.0	135.8	3.93	11.8	31.5	37.4

SOD-123 Suggested Pad Layout



UNIT		P1	Q1	Q2
mm	min	1.5	1.3	1.3
mil	min	59.0	51.2	51.2