

SS52FL SERIES

Product profile

Single Phase Ultra Low VF Schottky Rectifier

General description

Schottky Rectifiers 5 Amp 20~40V

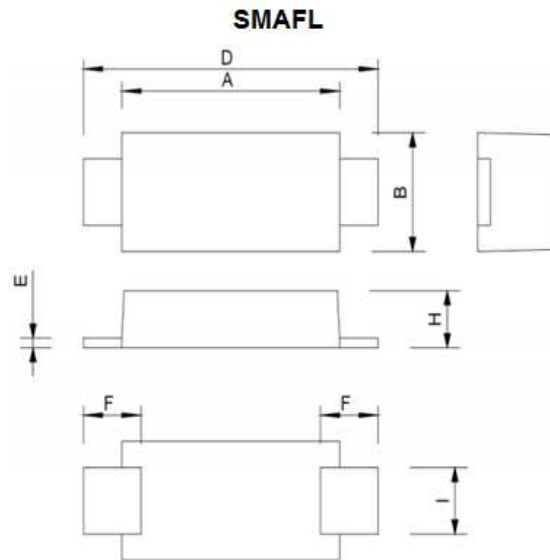
Features

- . RoHS Compliant Product
- . Ideal for surface mount applications
- . Built-in strain relief
- . Low forward voltage drop

Mechanical data

Case:

- . Case: Molded plastic
- . Epoxy: UL 94V-0 rate flame retardant
- . Metallurgically bonded construction
- . Polarity: Color band denotes cathode end .
- . Mounting position: Any
- . Weight: 0.25 grams



Dim	Min	Max
A	3.3	3.7
B	2.4	2.8
D	4.35	4.85
E	0.1	0.3
F	0.6	1.2
H	1.15	1.45
I	1.3	1.6

All Dimensions in mm

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

Parameter	Symbol	SS52FL	SS53FL	SS54FL	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
RMS Voltage (Max.)	VRMS	14	21	28	V
Working peak reverse voltage	VRWM	20	30	40	V
Maximum average forward rectified current	IF(AV)	5			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	120			A
Operating junction temperature range	TJ	-55 to +150			°C
Storage temperature range	TSTG	-55 to +150			°C

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
Typical thermal resistance	RθJL	15	°C/W

Notes:

- (1) Pulse test: 300 μs pulse width, 1 % duty cycle
- (2) Pulse test: Pulse width ≤ 40 ms

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Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

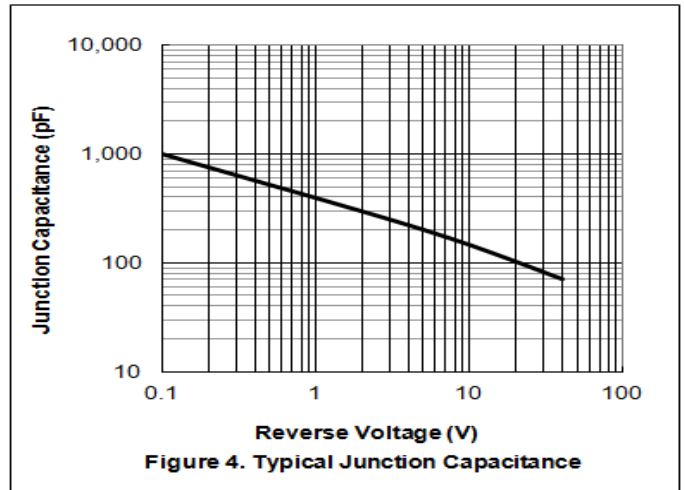
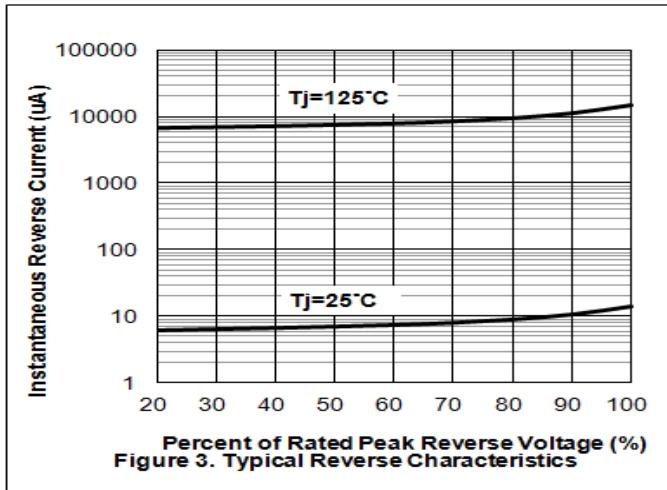
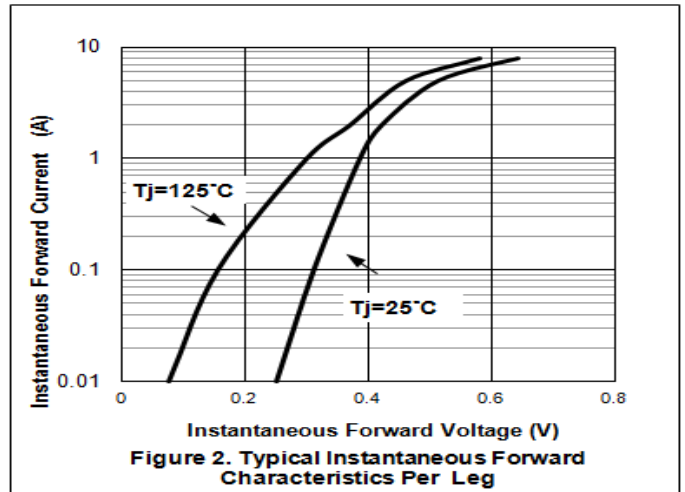
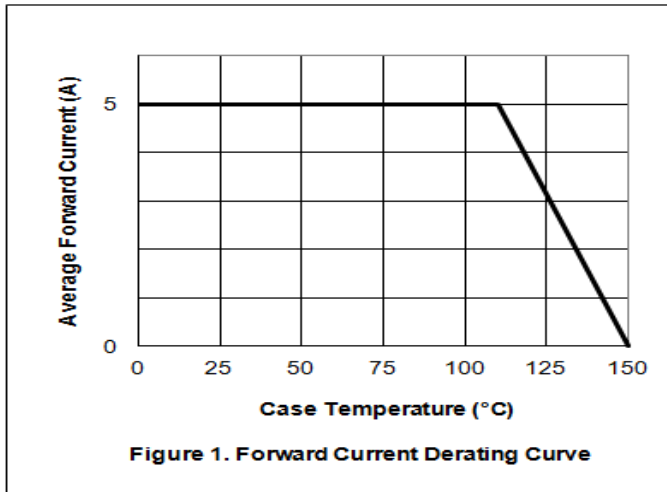
Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=5A, Tj=25°C at IF=5A, Tj=125°C	VF	0.51	0.54	V
		0.46	0.50	
Maximum reverse current Tj=25°C	IR	100		u'A
at working peak reverse voltage Tj=125°C		20		m'A
Junction Capacitance @ DC 5V	CJ	200		pF

DEVICE MARK

SS52-54FL

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■ Characteristic Curves



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