

SS53A

SCHOTTKY RECTIFIER

Features

- Ideal for surface mount applications . Easy pick and place

- Built-in strain relief
- Low forward voltage drop
- RoHS compliant package

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end .

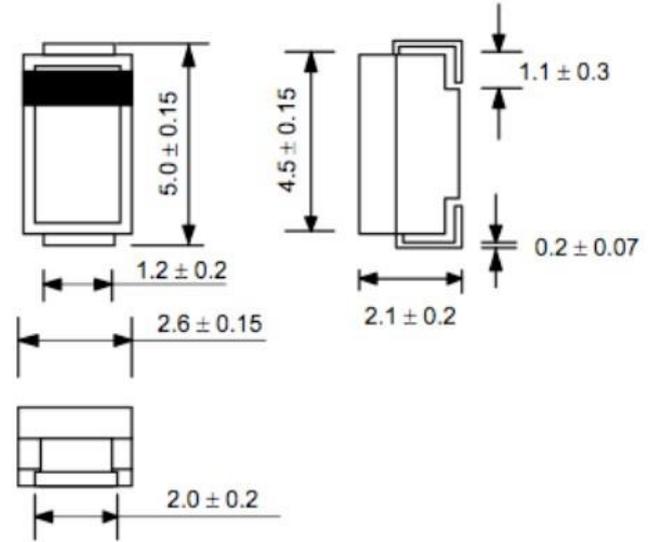
Mounting position: Any

- Weight: 0.65 grams

Packing & Order Information

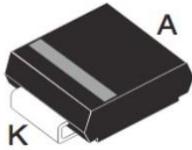
5,000/Reel

SMA (DO-214AC)



Dimensions in millimeters

Graphic symbol



RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	SS53A	Unit
Maximum repetitive peak reverse voltage	VRRM	30	V
Working peak reverse voltage	VRWM	30	V
Maximum DC blocking voltage	VDC	30	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	80	A
Operating junction temperature range	TJ	-50 to +150	°C
Storage temperature range	TSTG	-50 to +175	°C

Notes:

Mounted on 2" Square PC Board with 1" Square Total Pad Size, PC Board FR4.

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

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=5A, Tj=25°C	VF	0.49	0.52	V
Maximum reverse current Tj=25°C	IR	0.5		m'A
at working peak reverse voltage Tj=125°C		50		m'A

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

Parameter	Symbol	Value	Unit
Typical thermal resistance	Symbol	SS53A	°C/W
	RθJL	20	
	Rthja	50	

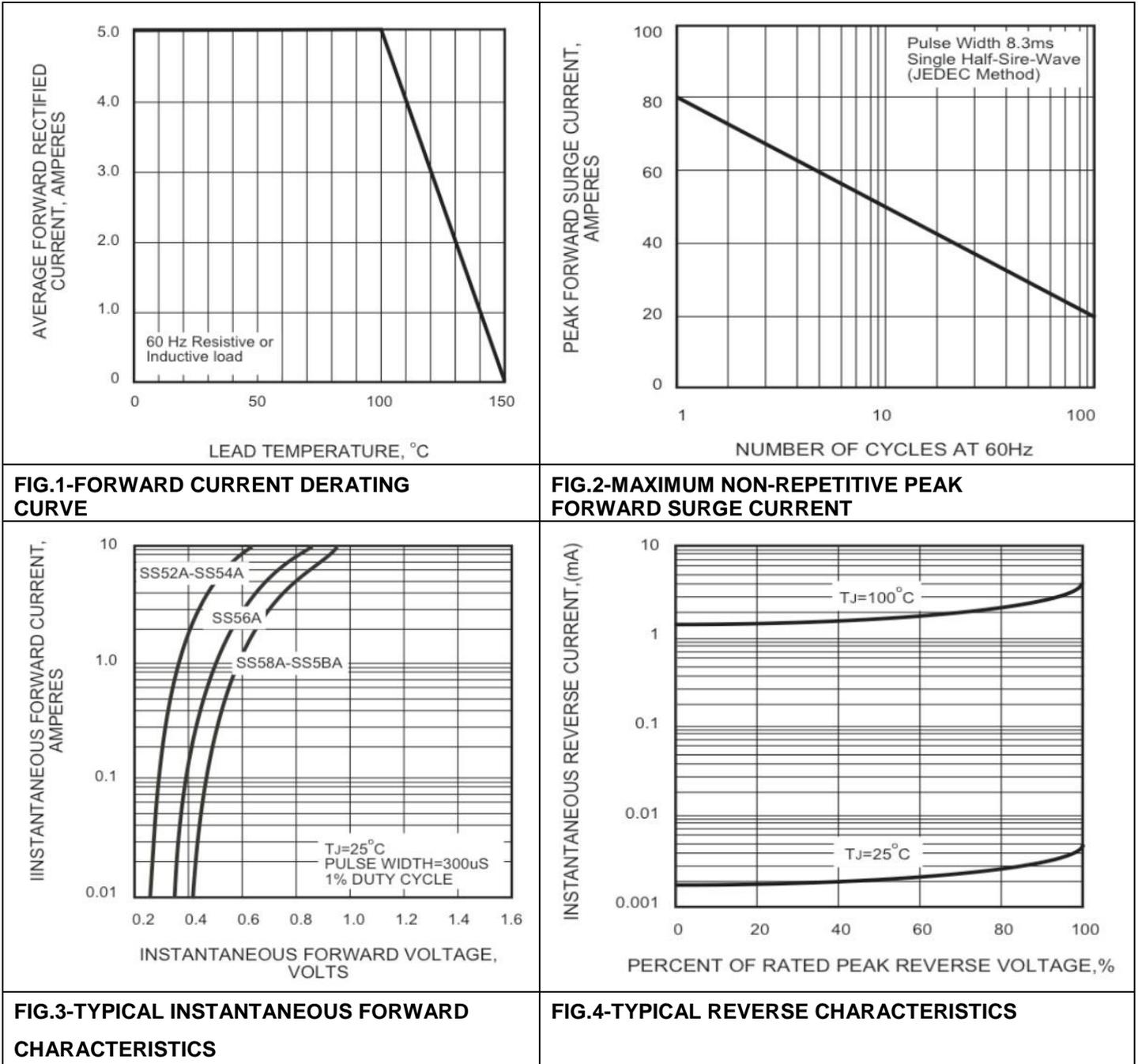
Notes:

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

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■ RATING AND CHARACTERISTIC CURVES



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