

SS515B

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

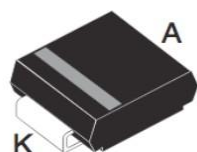
- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end .

Mounting position: Any

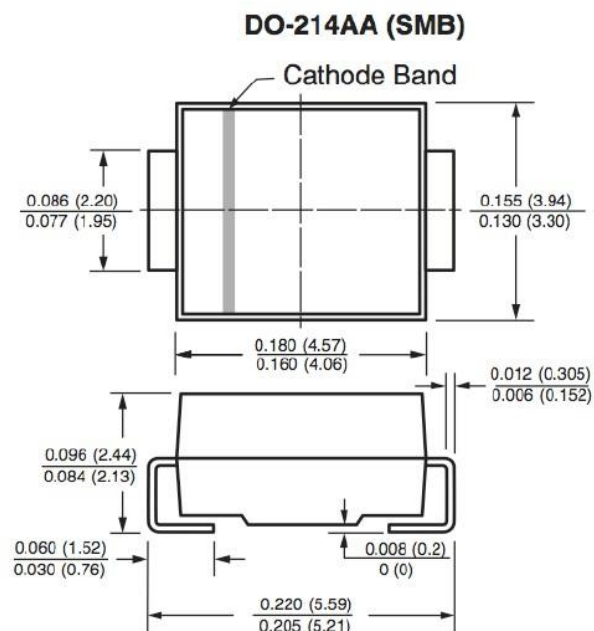
- Weight: 0.93 grams

Packing & Order Information

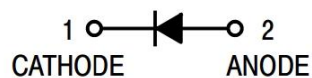
3,000/Reel



RoHS
COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	SS515B	Unit
Maximum repetitive peak reverse voltage	VRRM	150	V
Working peak reverse voltage	VRWM	150	V
Maximum DC blocking voltage	VDC	150	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	-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	0.87	0.95	V
Maximum reverse current Tj=25°C	IR	0.1		m'A
at working peak reverse voltage Tj=125°C		10		m'A

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

Parameter		Value	Unit
Typical thermal resistance	Symbol	SS515B	°C/W
	RθJL	50	
	Rthja	80	

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

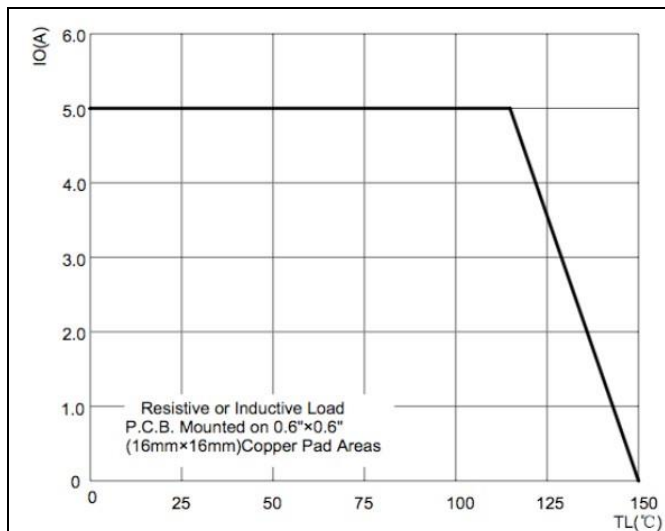


FIG.1-FORWARD DERATIVE CURVE

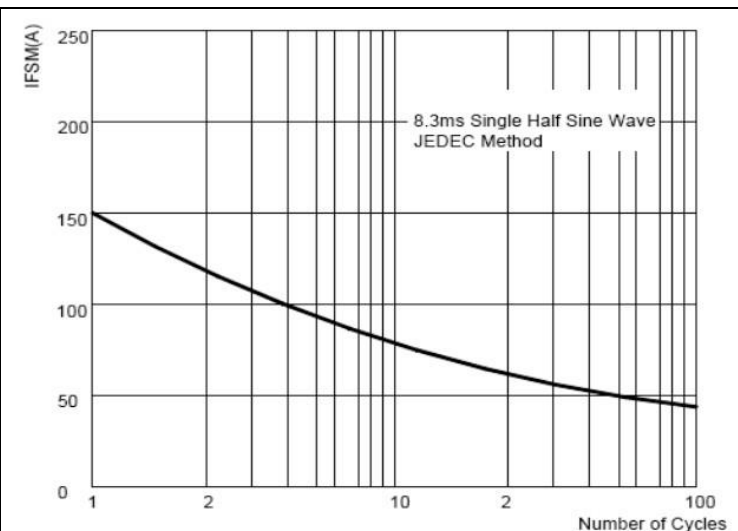


FIG.2-MAXFWD NON-REPETITIVE FORWARD SUGE CURRENT

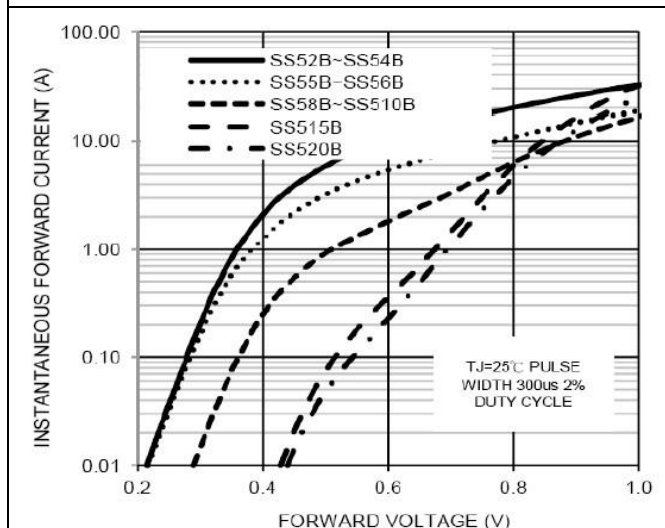


FIG.3-TYPICAL FORWARD CHARACTERISTICS

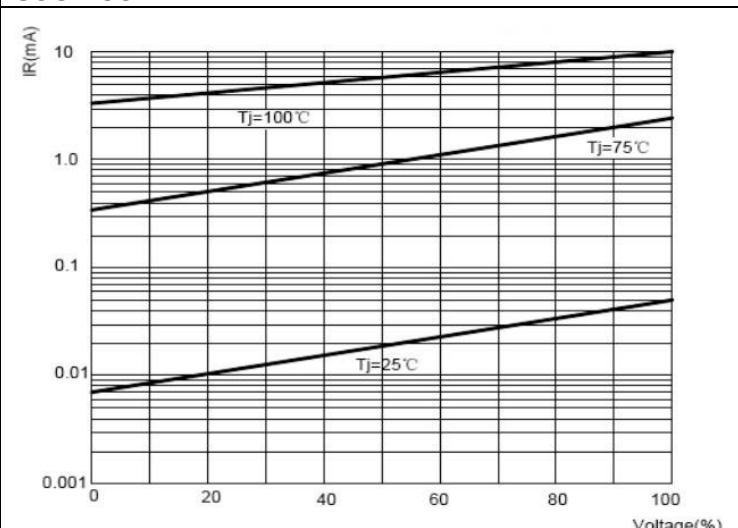


FIG.4-TYPICAL REVERSE CHARACTERISTIC

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