

SCHOTTKY RECTIFIER

Features

- Extremely Low VF
- · Low Stored Charge, Majority Carrier Conduction
- Low Power Loss/High Efficiency
- · Meet with RoHS compliance
- Lead free and Green device
- · RoHS Compliant package

Mechanical Data

· Case: SMA-S Molded Plastic

• Epoxy: UL 94V-0 Rate Flame Retardant

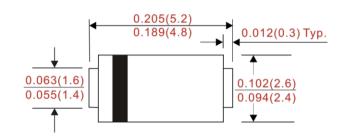
· Polarity: Color Band Denotes Cathode End

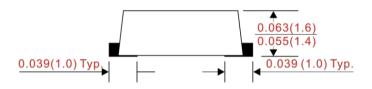
· Mounting Position: Any

Packing & Order Information

5,000/Reel







Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)			
Parameter	Symbol	SS24S	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Working peak reverse voltage	VRWM	40	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IF(AV)	2	A
Peak forward surge current			
8.3ms single half sine-wave superimposed	IFSM	50	A
on rated load (JEDEC Method)			
Operating junction temperature range	TJ	-55 to +125	°C
Storage temperature range	TSTG	-55 to +150	°C

Notes:

- (1) Mounted on 30 mm x 30 mm Al P.C.B. with 50 mm x 25 mm x 100 mm fin heat sink
- (2) Free air, mounted on recommended copper pad area



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Electrical characteristics (Tc=25°C unless otherwise noted)							
Parameter		Court to 1	Value		Unit		
	Symbol	Typical	Max				
Instantaneous forward voltage at II	F=2A, Tj=25°C	VF	0.46	0.50	V		
at l	F=2A, Tj=125°C		0.42	0.30			
Maximum reverse current	Tj=25°C	TD.	200		u'A		
at working peak reverse voltage	Tj=100°C	IR IR	50		u'A		

Thermal characteristics (Tc=25°C unless otherwise noted)						
Parameter	Value	Unit				
	Symbol	SS24S	°C/W			
Typical thermal resistance	RθJA	50				
	Rthjc	3				

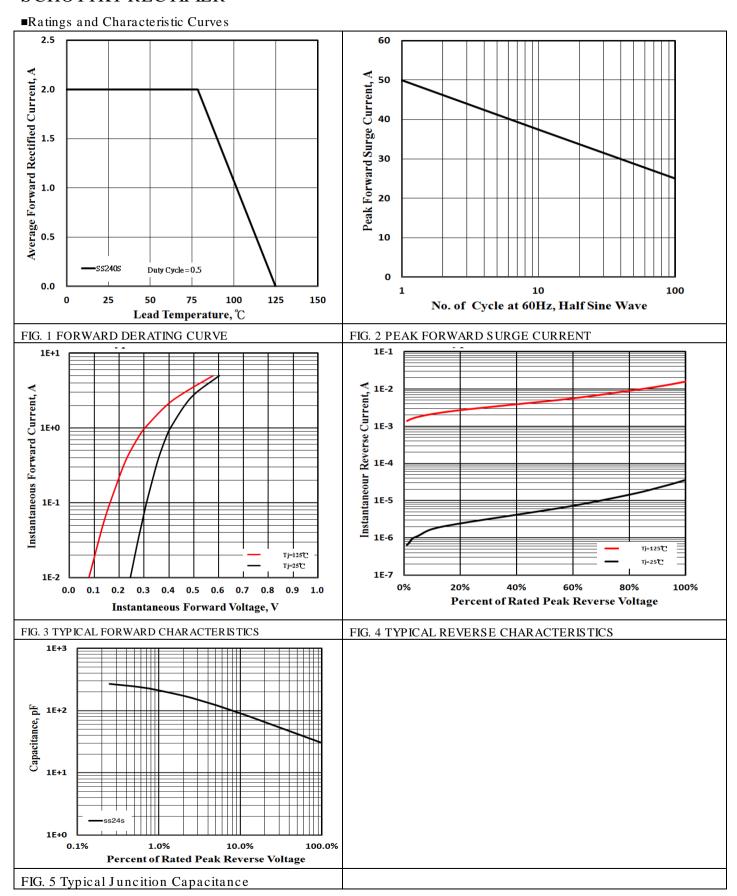
Notes:

(1) Pulse test: 300 μ s pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms



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