

S1A-N THRU S1M-N

1.0A Surface Mount General Purpose Rectifiers- 50V-1000V

Features

- · Glass passivated chip junction
- Ideal for automated placement
- Very tiny plastic SMD package.
- · High current capability
- High surge capability
- Lead free parts meet RoHS requirments
- · Compliant to Halogen-free

Mechanical data

• Epoxy:UL94-V0 rated flame retardant

• Case: Molded plastic, SOD-323

• Terminals : Solder plated, solderable per

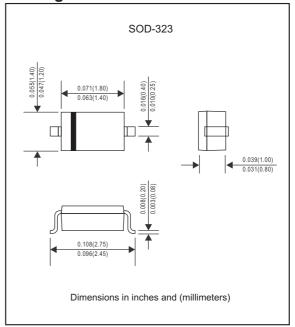
MIL-STD-750, Method 2026

• Polarity: Indicated by cathode band

• Mounting Position : Any

• Weight: Approximated 0.005 gram

Package outline



Maximum ratings (AT T_A=25°C unless otherwise noted)

			,						
PARAMETER	SYMBOLS	S1A-N	S1B-N	S1D-N	S1G-N	S1J-N	S1K-N	S1M-N	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum continuous reverse voltage	VR	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	lo	1.0							А
Peak forward surge current 8.3ms single half sine-wave(JEDEC method)	IFSM	15							А
Typical junction capacitance (1)	CJ	5.0							pF
Operating junction temperature range	TJ	-55 to +150							°C
Storage temperature range	Тѕтс	-65 to +150							°C

Electrical characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	SYMBOLS	S1A-N	S1B-N	S1D-N	S1G-N	S1J-N	S1K-N	S1M-N	UNIT
Maximum instantaneous forward voltage at IF=1.0A	VF				1.1				V
Maximum reverse leakage current TJ = 25°C at rated VR TJ = 125°C	lR				5.0 50				uA uA

Thermal characteristics

PARAMETER	SYMBOLS	S1A-N	S1B-N	S1D-N	S1G-N	S1J-N	S1K-N	S1M-N	UNIT
Typical thermal resistance junction to ambient (2)	RөJA				55				°C/W

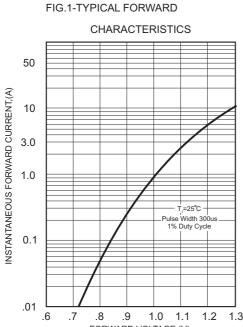
Notes 1: Measured at 1MHz and applied reverse voltage of 4.0V D.C

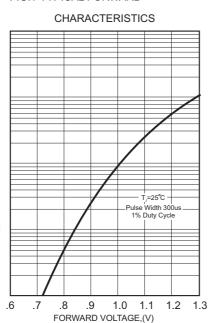
2: Mounted on FR-4 PCB copper, minimum recommended pad layout

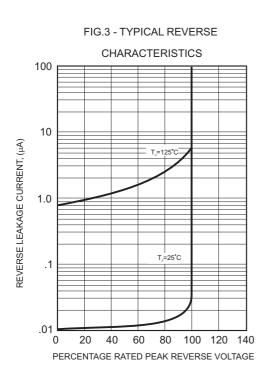


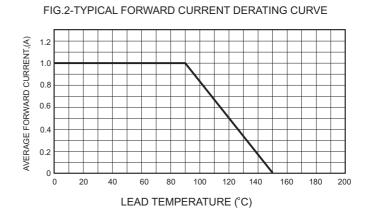
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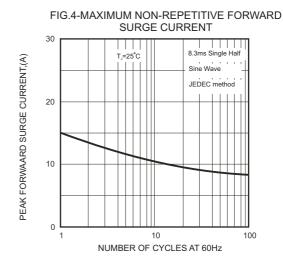
Rating and characteristic curves (S1A-N THRU S1M-N)

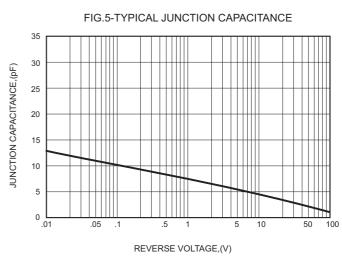














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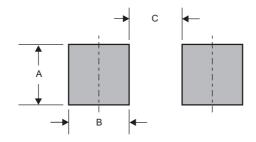
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	1 🔲 📙 2	12

Marking

Type number	Marking code
S1A-N	1A
S1B-N	2A
S1D-N	3A
S1G-N	4 A
S1J-N	5A
S1K-N	6A
S1M-N	7 A

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С	
SOD-323	0.047 (1.20)	0.047 (1.20)	0.055 (1.40)	

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)
SOD-323	7"	3,000	4.0	30,000	183*183*123	178	382*262*387	240,000

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