

1SS355

200mW Surface Mount High speed Switching Diode

SOD-323 Flat Lead







Features

- ♦ High Speed Switching Device (Trr < 4.0nS)</p>
- ♦ Flat Lead SOD-323 Small Outline Plastic Package
- ♦ Surface Device Type Mounting
- ♦ Moisture Sensitivity Level 1
- ♦ Green EMC
- ♦ Clip Bonding Construction, Good Thermal Capability
- ♦ RoHS Compliant & Matte Tin(Sn) Lead Finish
- Green compound with suffix "G" on packing code
 prefix "G" on datecode.

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-O rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode.
- High temperature soldering guaranteed: 260oC/10 seconds /.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.006 gram♦ Marking code : S4

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

1.	2.30-2.70 mm	
1	(0.091-0.106 in)	
0.25-0.40 mm (0.010-0.016 in)		1.15-1.35 mm (0.045-0.053 in)
	1.60-1.80 mm	
	(0.063-0.071 in)	
0.05-0.25 mm (0.002-0.010 in)		0.80-1.00 mm (0.031-0.039 in)
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ELECTRI CAL SYMBOL

Type Number	Symbol	Value	Units
Power Dissipation	P _D	200	mW
Repetitive Peak Reverse Voltage	V_{RRM}	90	V
Reverse Voltage	V_R	80	V
Minimum Breakdown Voltage at I _R = 100uA	V_{BR}	80	V
Forward Current	I _F	250	mA
Continue Forward Current	lo	150	mA
Repetitive Peak Forward Current	I _{FSM}	500	mA
Maximum Reverse Leakage Current at V _R =80V	I _R	100	nA
Maximum Forward Voltage at I _F = 100mA	V _F	1.2	V
Maximum Reverse Recovery Time at I _F = 10mA, V _R =6V,R _L =100Ohms	Trr	4	nS
Maximum Junction capacitance at V _R =0.5V,f=1MHz	Cj	4	pF
Operating Temperature Range	T _{OPR}	-65 to +150	оС
Storage Temperature Range	T _{STG}	-65 to +150	οС

Notes: These ratings are limiting values above which the serviceability of the diode may be impaired

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