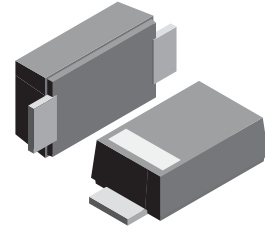


VOLTAGE RANGE: 40V
CURRENT: 1.0 A

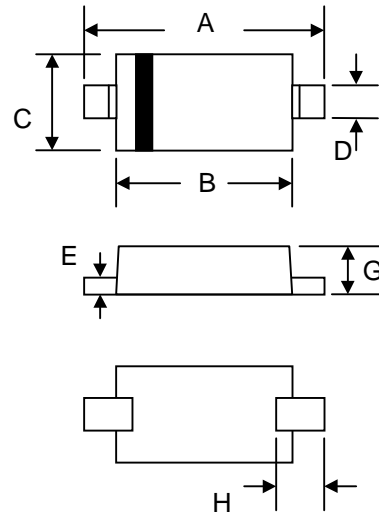


Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance

Mechanical Data

- Case: SOD-323
- Case Material: Molded Plastic,
- "Green" Molding Compound. UL
- Flammability Rating Classification 94V-0
- Weight: 0.004 grams (approximate)
- Marking : S4



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	—
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current	I _O	1	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	3	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P _D	235	mW
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	426	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-40 to +125	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	—	—	V	I _R = 1mA
Forward Voltage	V _F	—	542	0.62	V	I _F = 1A
Reverse Current (Note 2)	I _R	—	2.0	50	μA	V _R = 40V
Total Capacitance	C _T	—	125	—	pF	V _R = 0V, f = 1.0MHz
		—	20	—	pF	V _R = 10V, f = 1.0MHz

- Notes:
1. Part mounted on FR-4 PC board with recommended pad layout
 2. Short duration pulse test used to minimize self-heating effect.

