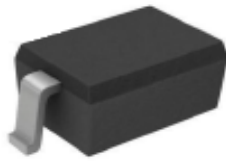


SOD-323



Marking: S4

Features

- High Current Capability
- Low Forward Voltage Drop
- Halogen free and RoHS compliant

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	B5819WS-2	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IFM	350	mA
Peak forward surge current 8.3 ms single half sine-wave	IFSM	1.5	A
Typical thermal resistance	RθJA	250	°C/W
Power Dissipation	PD	200	mW
Storage temperature range	TSTG	-50+150	°C

Electrical Characteristics

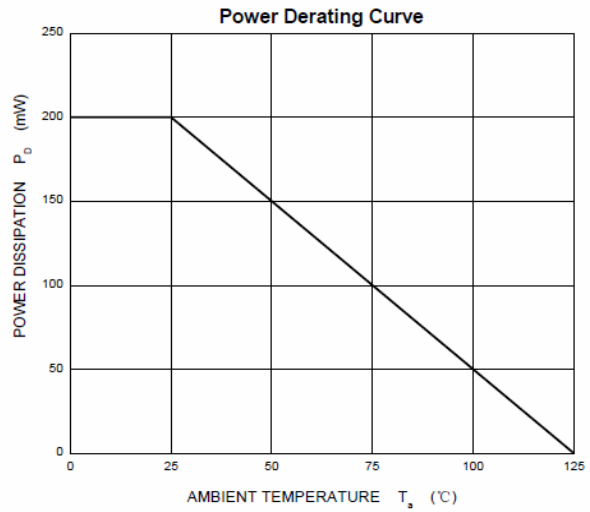
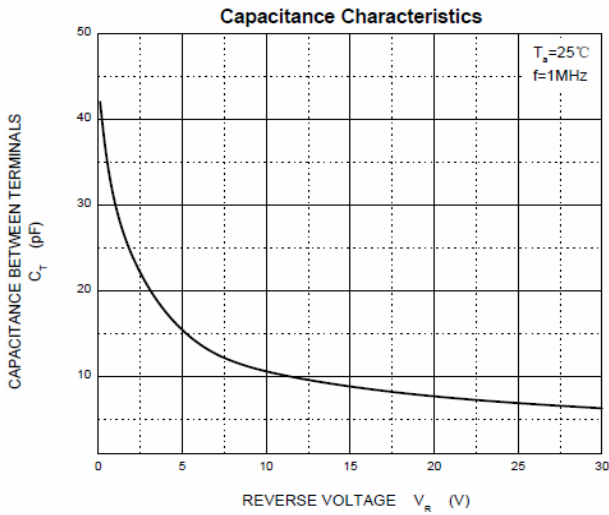
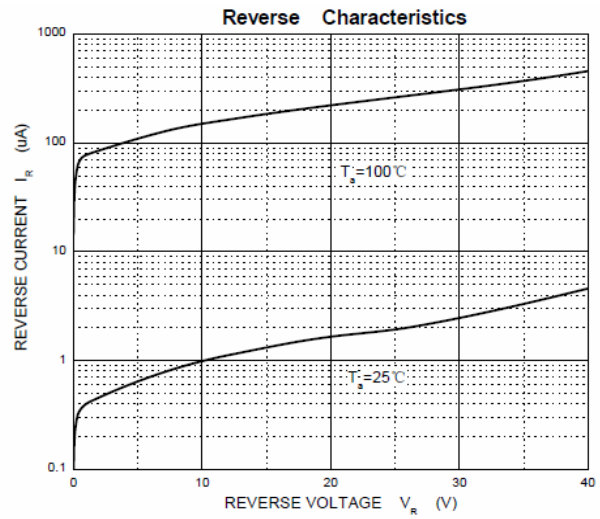
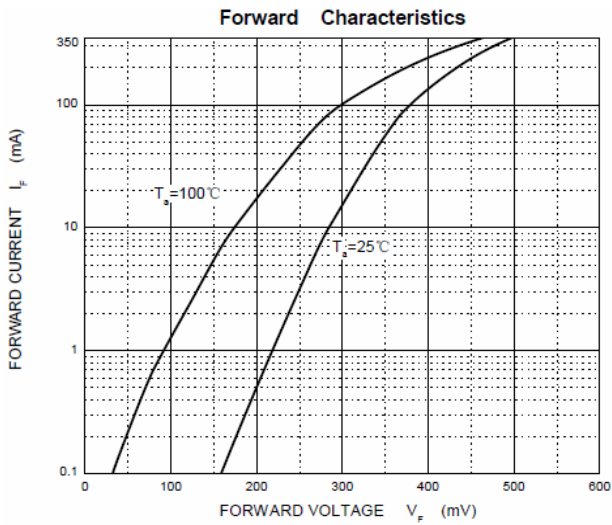
(Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Symbol	Test conditions	B5819WS-2	Unit
Maximum forward voltage	VF	IF = 20mA IF = 200mA	0.370 0.600	V
Maximum reverse breakdown voltage	VR	IR=100uA	40	V
Maximum reverse current	IR	VR=30V	5.0	uA
Type junction capacitance	Cj	VR =0V, f = 1MHz	50	pF
Reverse recovery time	Trr	IF=IR=200mA, Irr=0.1xIR,RL=100 Ω	10	ns

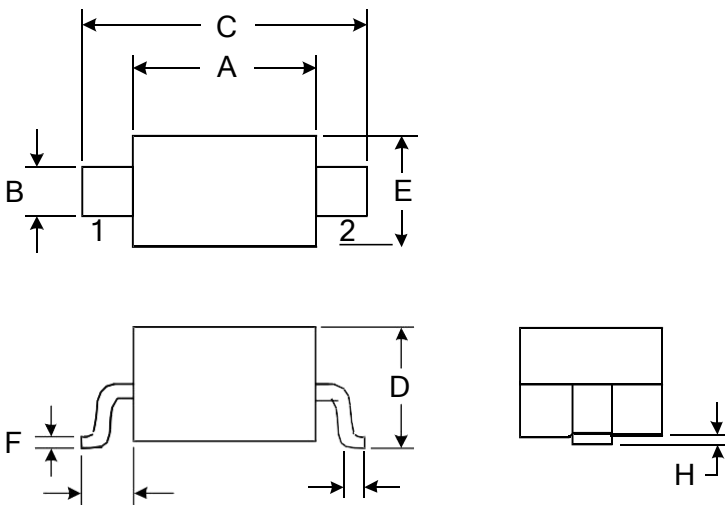
Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-323	Tape/Reel,7" reel	3000	EIA-481-1

Ratings and Characteristic Curves



Package Outline Dimensions: SOD-323



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	0.250	0.350	0.010	0.014
C	2.500	2.700	0.098	0.106
D		1.000		0.039
E	1.200	1.400	0.047	0.055
F	0.080	0.150	0.003	0.006
L	0.500 REF		0.020REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004