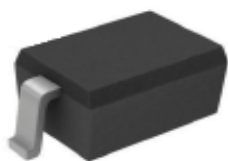


SOD-323



Marking: **D**

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	RB551V-30	Unit
Peak reverse voltage	VRM	30	V
DC reverse voltage	VR	21	V
Mean rectifying current	Io	0.5	A
Peak forward surge current 8.3 ms single half sine-wave	IFSM	2.0	A
Typical thermal resistance	RθJA	400	°C/W
Power Dissipation	PD	250	mW
Storage temperature range	TSTG	-50-+150	°C

Electrical Characteristics

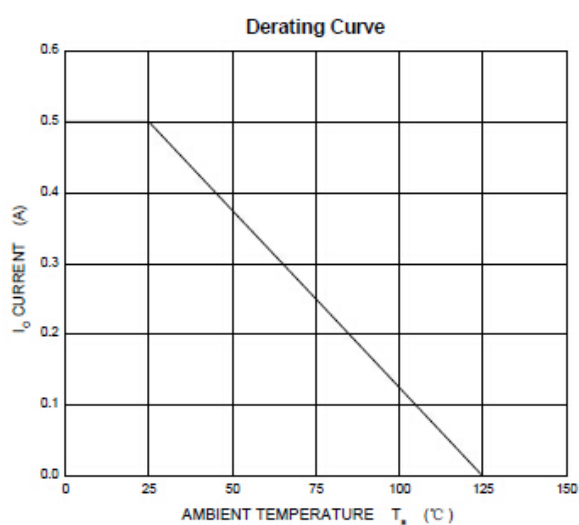
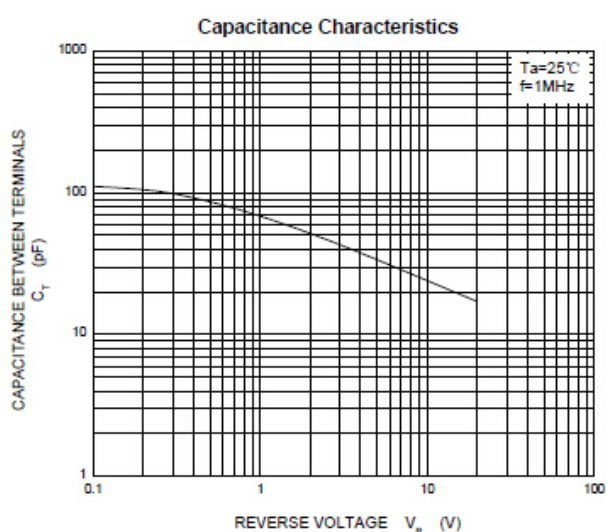
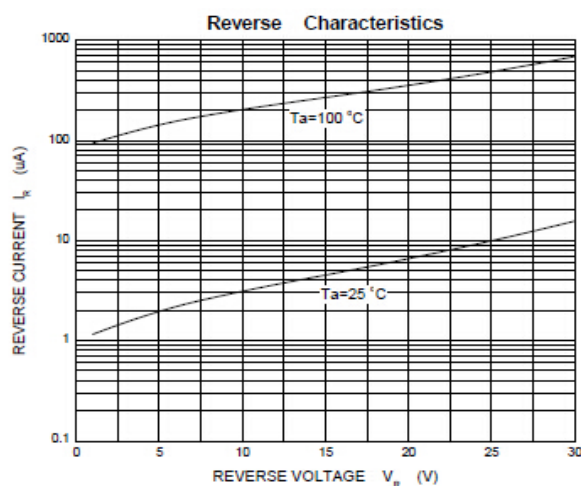
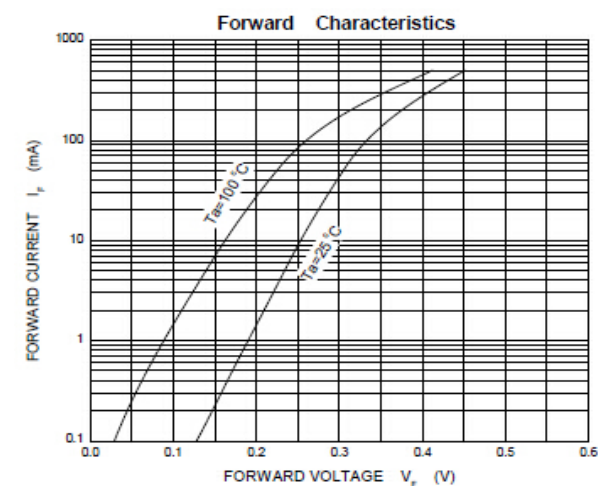
(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Test conditions	RB551V-30	Unit
Maximum forward voltage	VF	IF = 0.1A IF = 0.5A	0.360 0.540	V
Maximum reverse breakdown voltage	VR	IR=1mA	30	V
Maximum reverse current	IR	VR=20V	100	umA

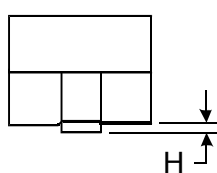
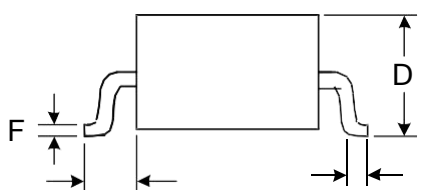
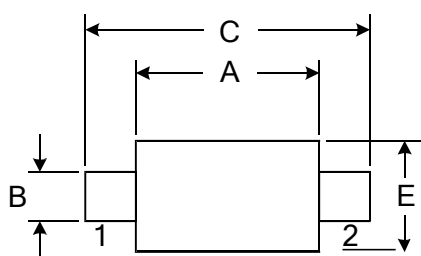
Summary of Packing Options

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		0.020 REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004