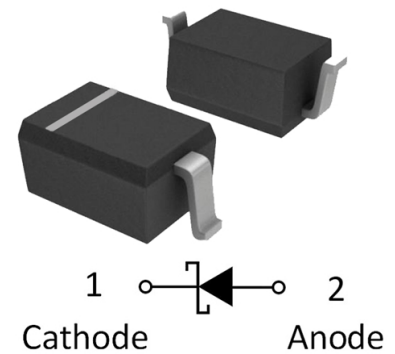


»Features

- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion

»General Description

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



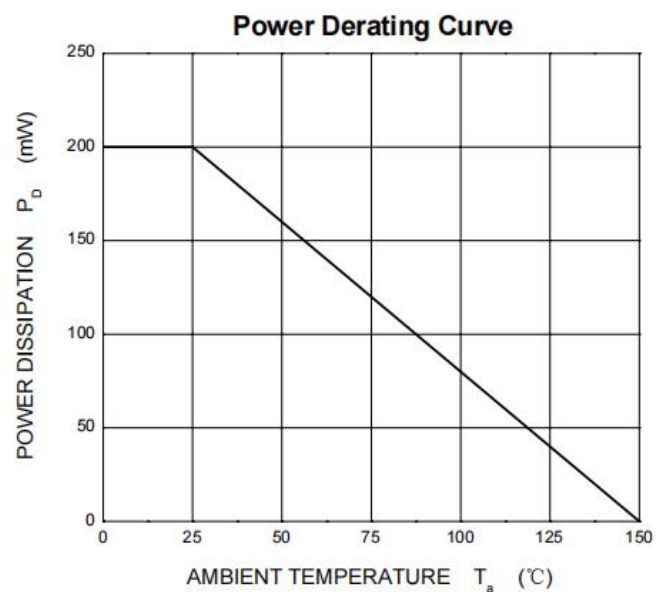
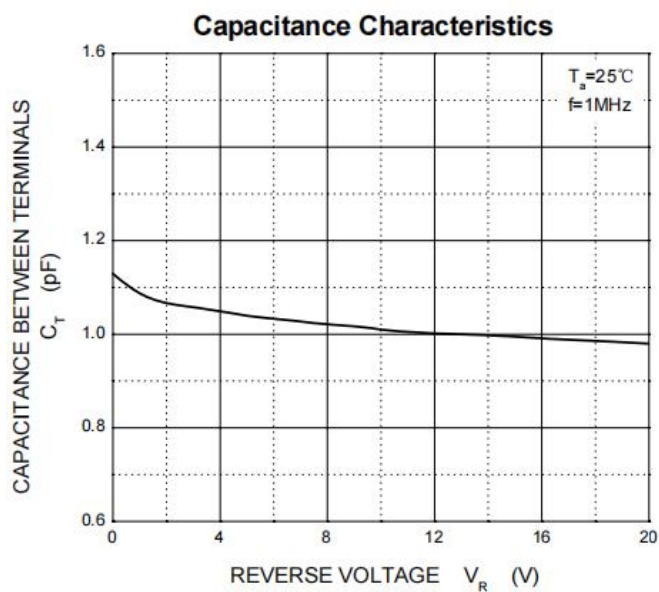
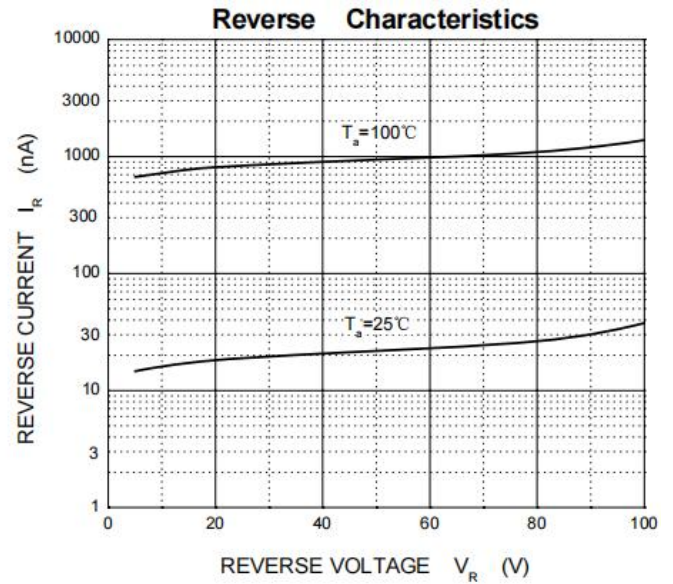
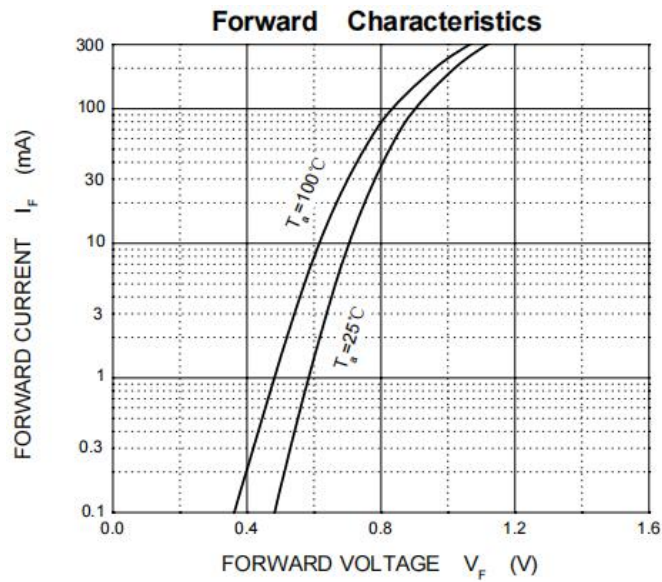
»Absolute Maximum Ratings @T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Unit
VRM	Non-repetitive Peak Reverse Voltage	100	V
VRRM	Peak Repetitive Peak Reverse Voltage	75	V
VRWM	Working Peak Reverse Voltage		
VR	DC Blocking Voltage		
VR(RMS)	RMS Reverse Voltage	53	V
IO	Average Rectified Output Current	250	mA
IFM	Forward Continuous Current	500	mA
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
Pd	Power Dissipation	200	mW
RQJA	Thermal Resistance From Junction To Ambient	600	°C/W
TJ	Operation Junction Temperature Range	-40~+125	°C
TSTG	Storage Temperature Range	-55~+150	°C

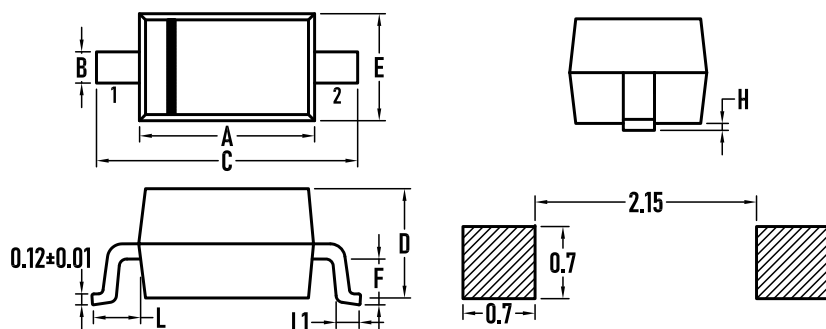
» **Electrical Characteristics** @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V(BR)	Reverse breakdown voltage	IR=10 μ A	75			V
IR	Reverse current	VR=75V			1	μ A
		VR=20V			25	nA
VF	Forward voltage	IF=5mA	0.62		0.72	V
		IF=10mA			0.855	V
		IF=100mA			1.0	V
		IF=150mA			1.25	V
CT	Capacitance Between Terminals	VR=0V, f=1MHz			4	pF
trr	Reverse recovery time	IF=IR=10mA Irr=0.1XIR ,RL=100 Ω			4	nS

»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)

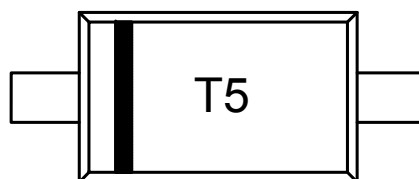


»Package Information SOD-323



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	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004

»Marking



»Ordering information

Order code	Package	Base qty	Delivery mode
1N4448WS	SOD-323	3K	Tape and reel