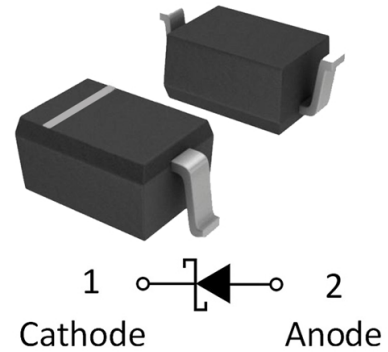


»Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-323 Plastic Package

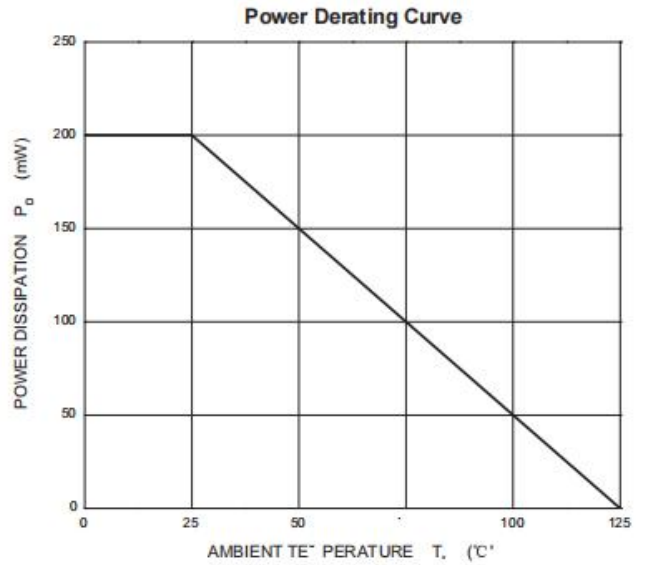
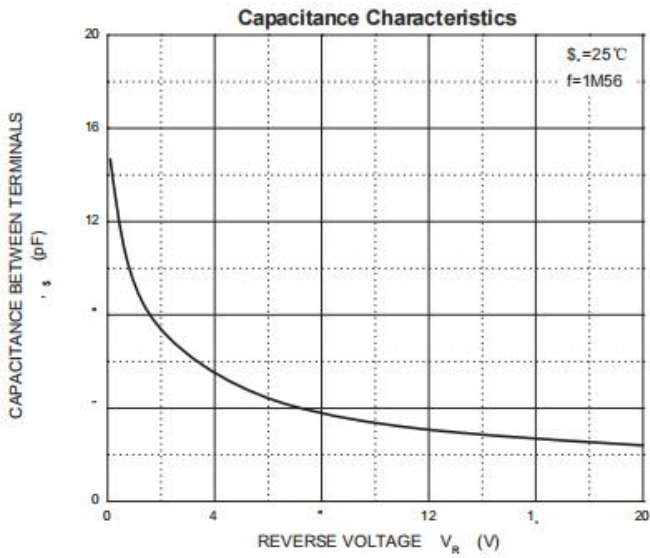
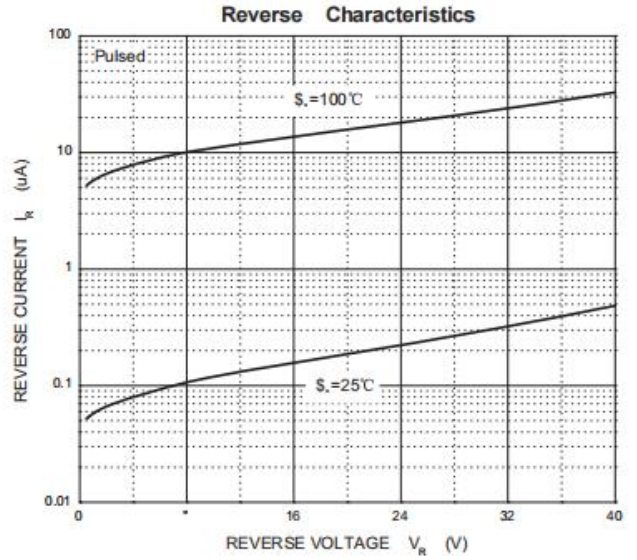
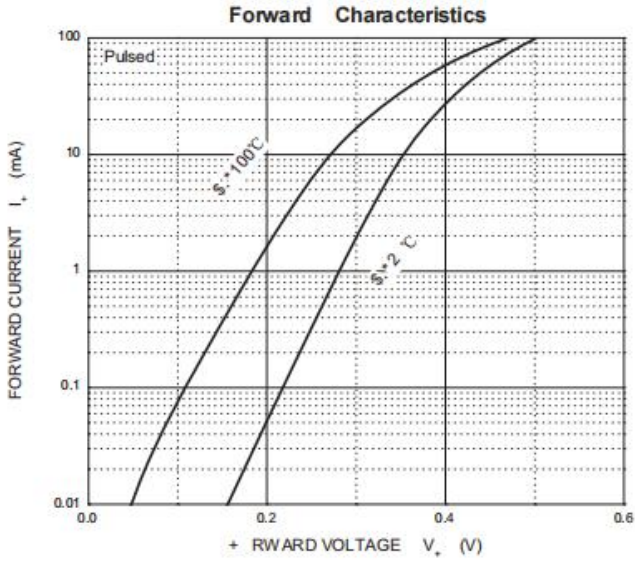
» Maximum Ratings @ $T_A=25^{\circ}\text{C}$  unless otherwise noted

Symbol	Parameter	Limit	Unit
VRRM	Peak Reverse Voltage	45	V
VR	DC Blocking Voltage	40	V
$I_o$	Mean rectifying Current	100	mA
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	1.0	A
$P_d$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	$^{\circ}\text{C}/\text{W}$
$T_J$	Operation Junction Temperature Range	-40~+125	$^{\circ}\text{C}$
TSTG	Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

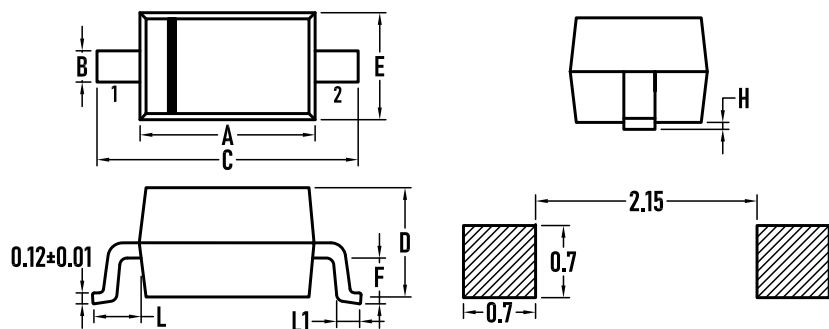
»Electrical Characteristics @ $T_A=25^{\circ}\text{C}$  unless otherwise noted

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
IR	Reverse current	$V_R=40\text{V}$			5.0	$\mu\text{A}$
VF	Forward voltage	$I_F=1\text{mA}$			0.35	V
		$I_F=10\text{mA}$			0.45	V
		$I_F=100\text{mA}$			0.6	V
CT	Capacitance between terminals	$V_R=0\text{V}, f=1.0\text{MHz}$			25	pF

»Typical Performance Characteristics (T<sub>J</sub> = 25 °C, unless otherwise noted)

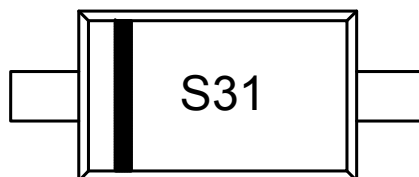


»Package Information SOD-323



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
1SS357	SOD-323	3K	Tape and reel

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