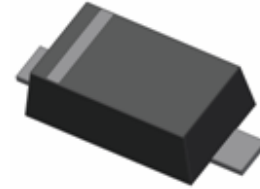


Small Outline Flat Fast Switching Diode

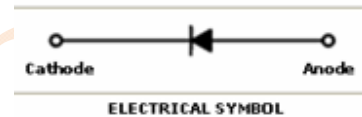
VC1SS355F 200mW SOD-323 SURFACE MOUNT

Small Outline Flat Lead Plastic Package
High Speed Switching Diode

Green Product



SOD-323 Flat Lead



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

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
V_R	Reverse Voltage	80	V
V_{RM}	Repetitive Peak Reverse Voltage	90	V
I_{FM}	Forward Current	250	mA
I_O	Continuous Forward Current	150	mA
I_{FRM}	Repetitive Peak Forward Current	500	mA
I_{FSM}	Peak Forward Surge Current (Pulse Width=1us)	2	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- High Speed Switching Device ($T_{RR} < 4.0$ nS)
- General Purpose Diodes
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

Device Type	Device Marking
VC1SS355F	S4

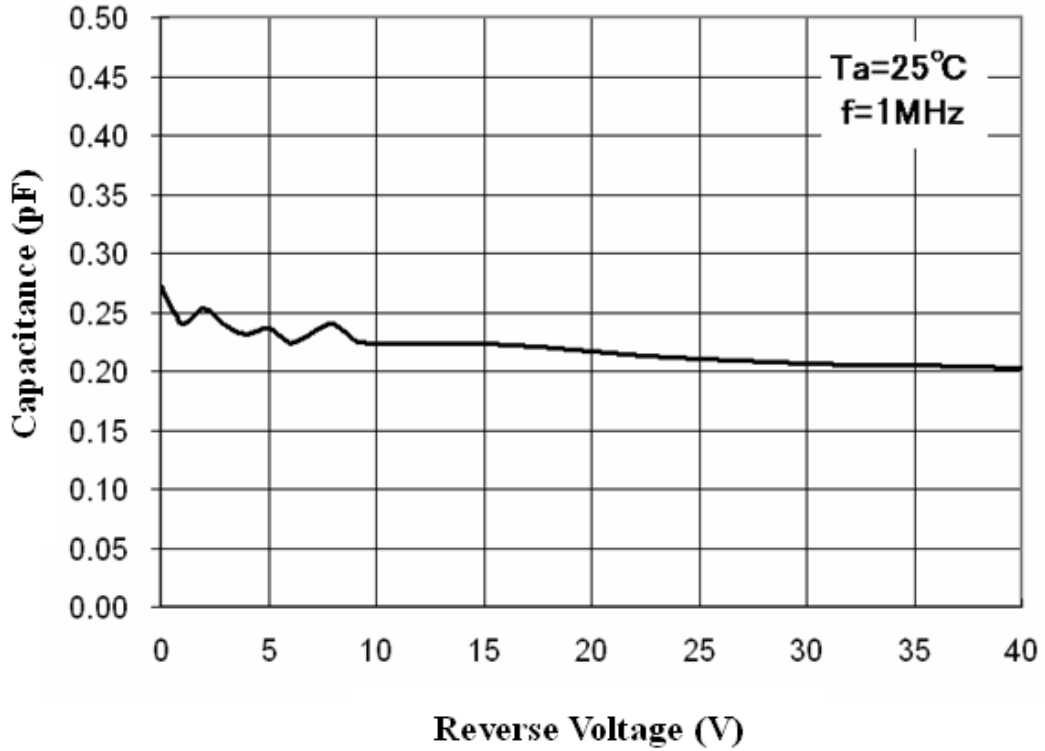
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	80		Volts
I_R	Reverse Leakage Current	$V_R=80\text{V}$		100	nA
V_F	Forward Voltage	$I_F=100\text{mA}$		1.2	Volts
T_{RR}	Reverse Recovery Time	$I_F=10\text{mA}$ $V_R=6\text{V}$ $R_L=100\Omega$		4	nS
C	Capacitance	$V_R=0.5\text{V}$, $f=1\text{MHz}$		4	pF

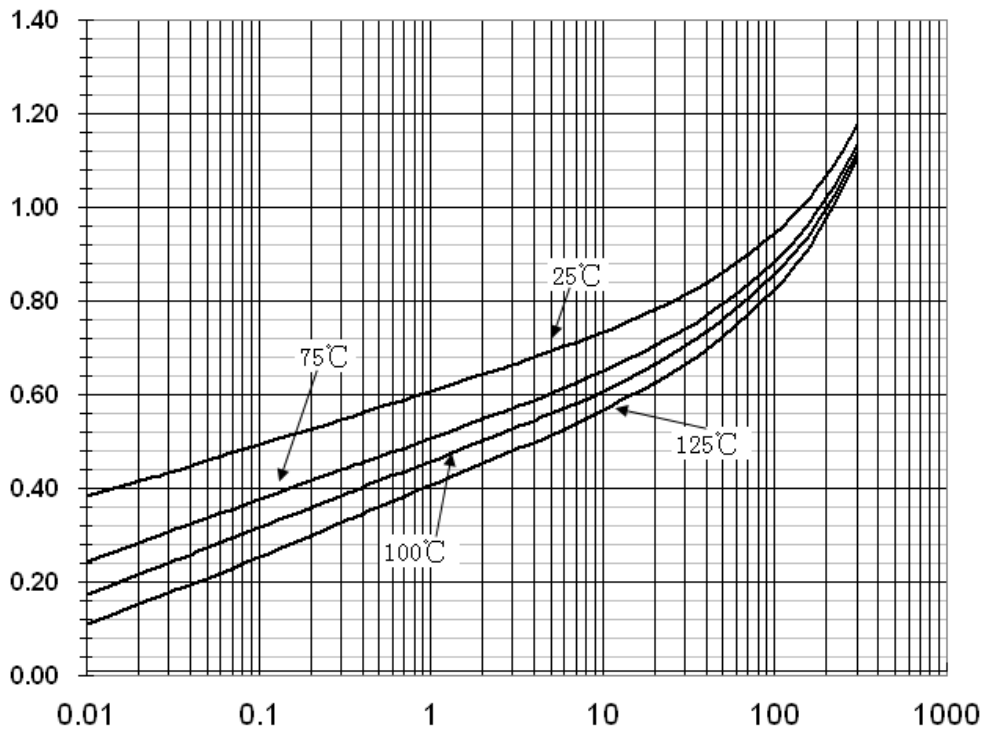
Small Outline Flat Fast Switching Diode

Typical Performance Characteristics

Total Capacitance

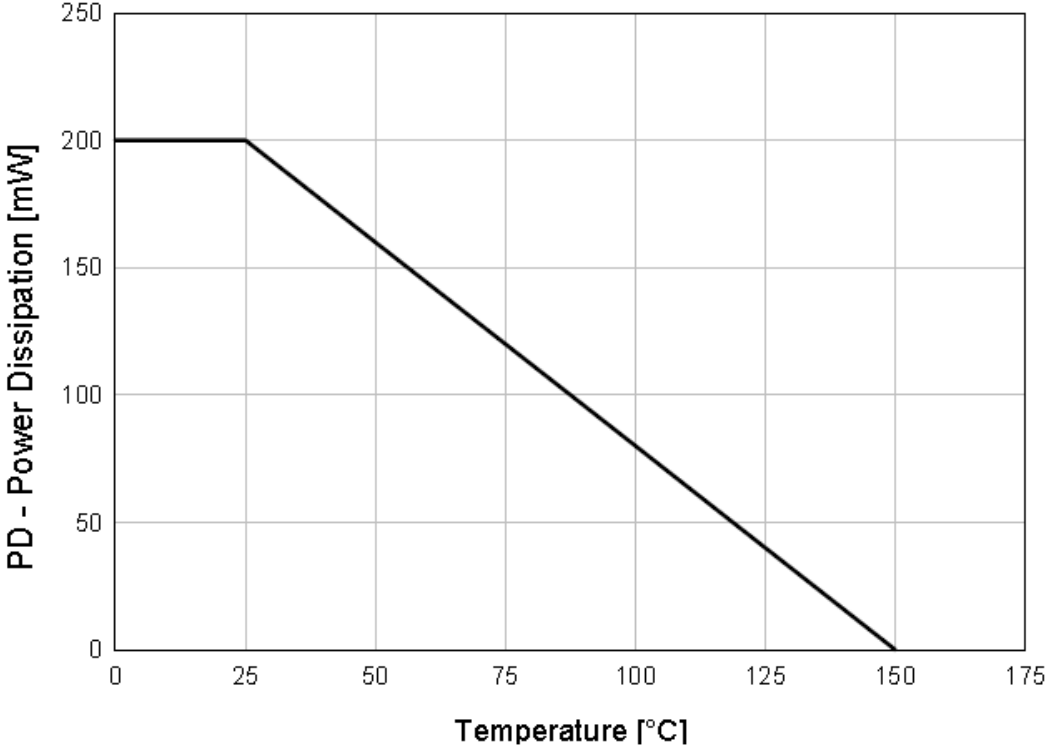


Forward Voltage vs Ambient Temperature

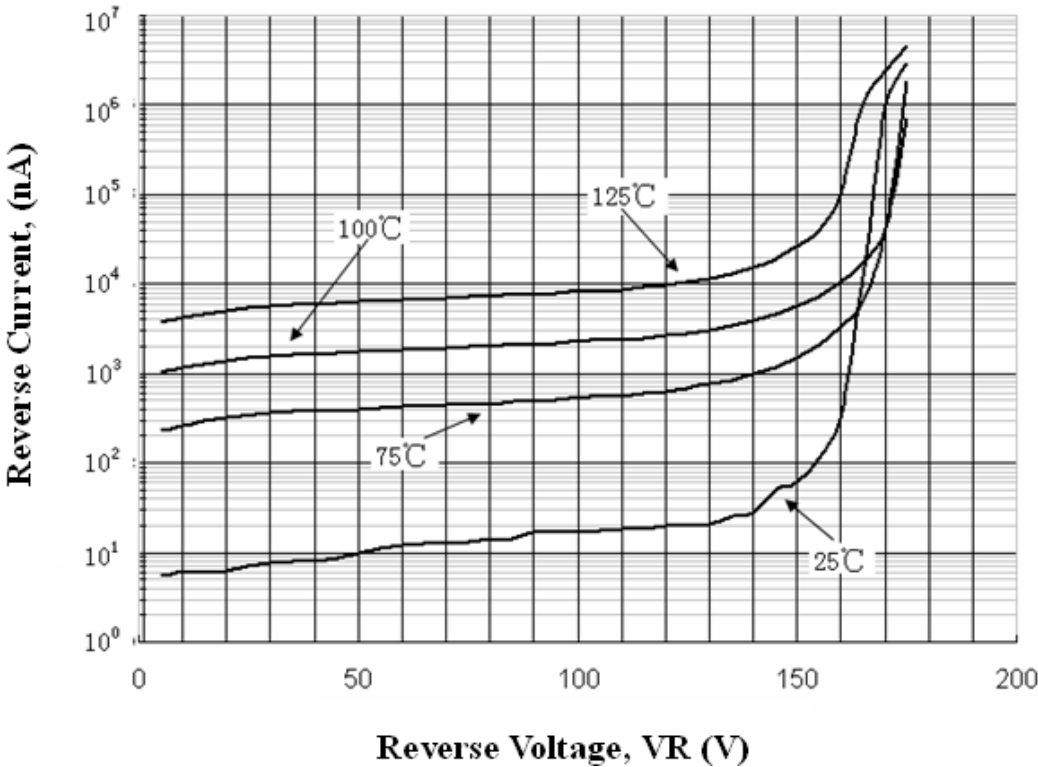


Small Outline Flat Fast Switching Diode

Power Derating Curve

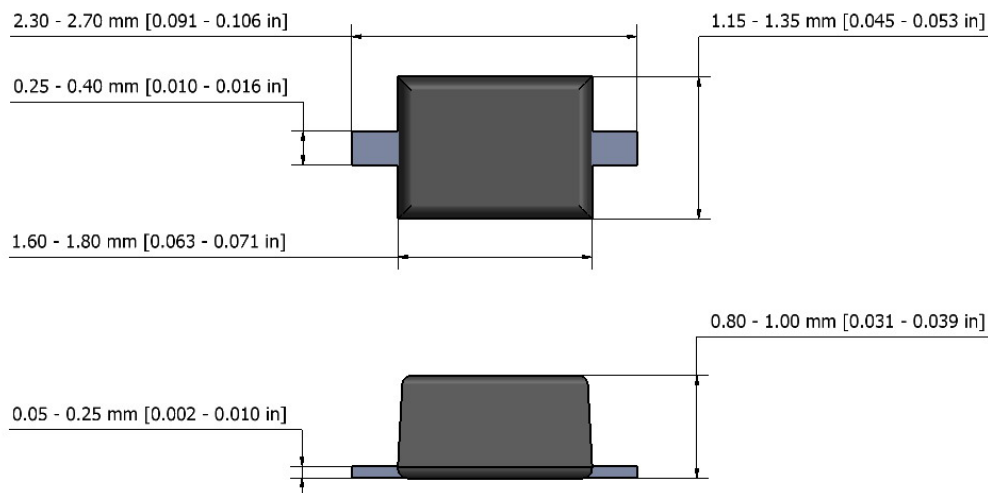


Reverse Current vs Reverse Voltage



Small Outline Flat Fast Switching Diode

SOD-323 Package Outline



NOTES:

1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

Important Notice and Disclaimer

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