

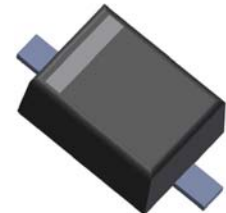


# DATA SHEET

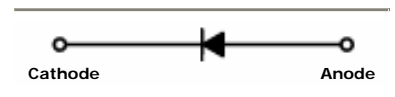
SEMICONDUCTOR

## 1SS355FL

**200mW SOD-323 SURFACE MOUNT**  
**Small Outline Flat Lead Plastic Package**  
**High Speed Switching Diode**



SOD-323 Flat Lead



ELECTRICAL SYMBOL

### 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

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

### DEVICE MARKING CODES:

Device Type	Device Marking
1SS355FL	S4

### Specification Features:

- High Speed Switching Device ( $T_{RR} < 4.0 \text{ nS}$ )
- General Purpose Diodes
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Moisture Sensitivity Level 1
- Clip Bonding Construction, Good Thermal Capability
- Pb Free Version and RoHS Compliant
- Matte Tin(Sn) Lead Finish with Nickel(Ni) Underplate
- Band Indicates Cathode

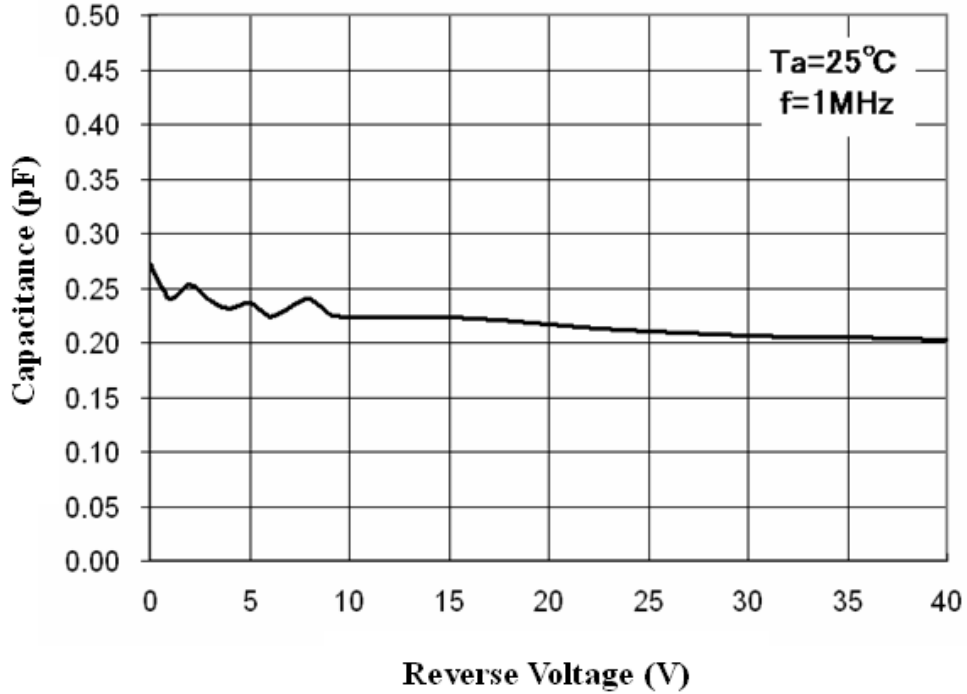
### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

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

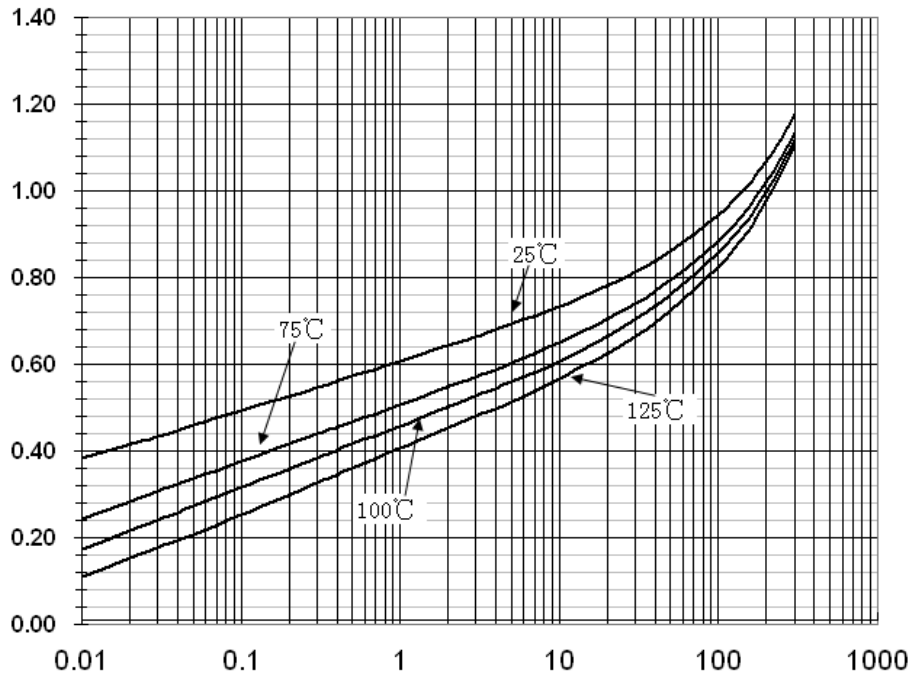
# DEVICE CHARACTERISTICS

## 1SS355FL

Total Capacitance

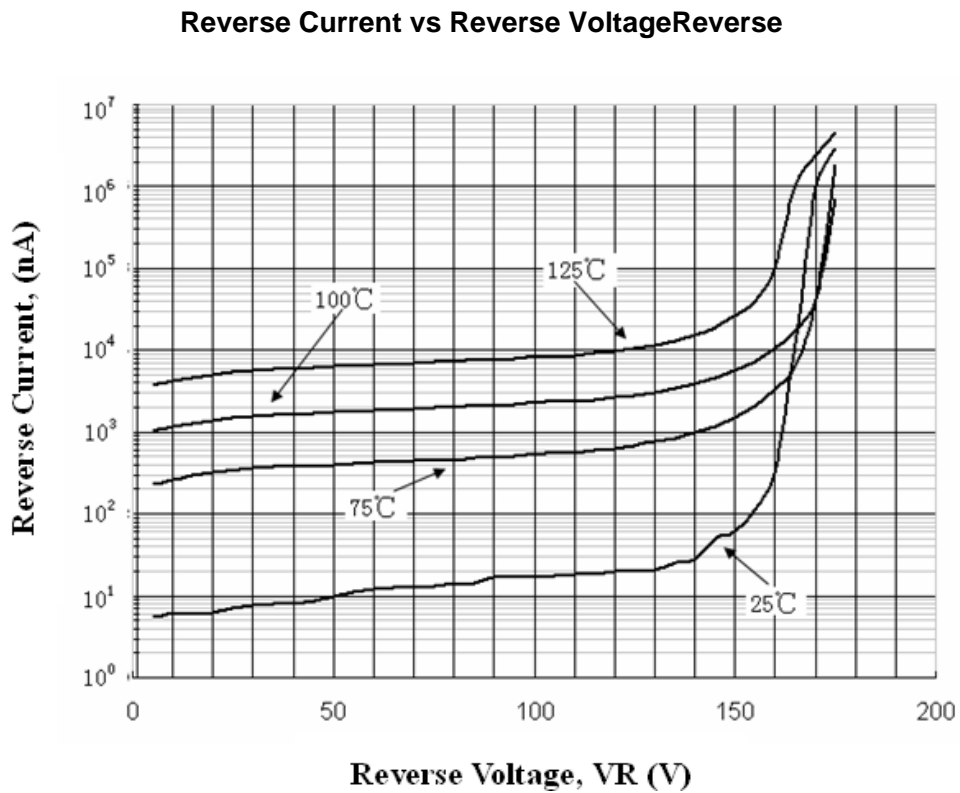
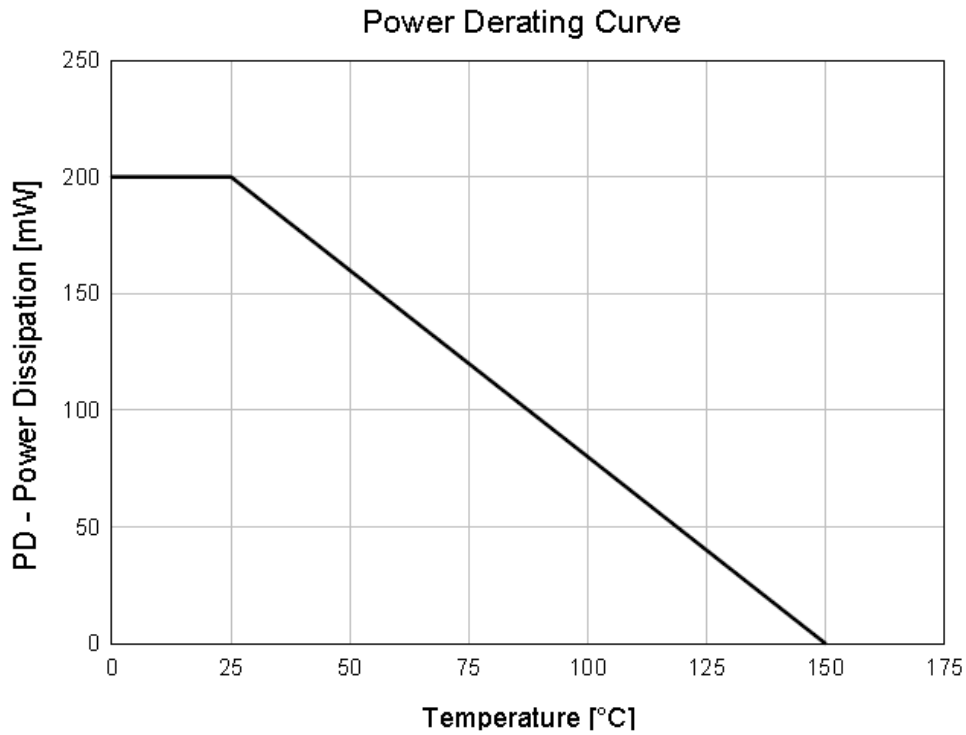


Forward Voltage vs Ambient Temperature



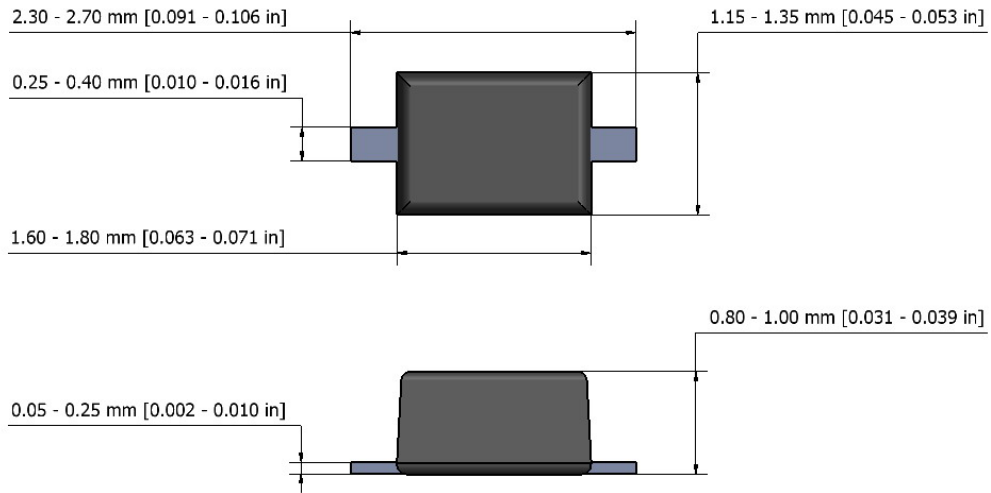
# DEVICE CHARACTERISTICS

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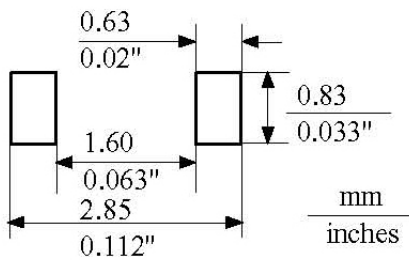


# PACKAGE OUTLINE & DIMENSIONS

## 1SS355FL



NOTE: The above package outline is similar to JEITA SC-90.



Mounting Pad Layout