

150mW High Speed Switching Diode
Reverse Voltage 100 Volts Forward Current 0.15 Ampere

Features

- General purpose diodes
- High switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- RoHS compliant

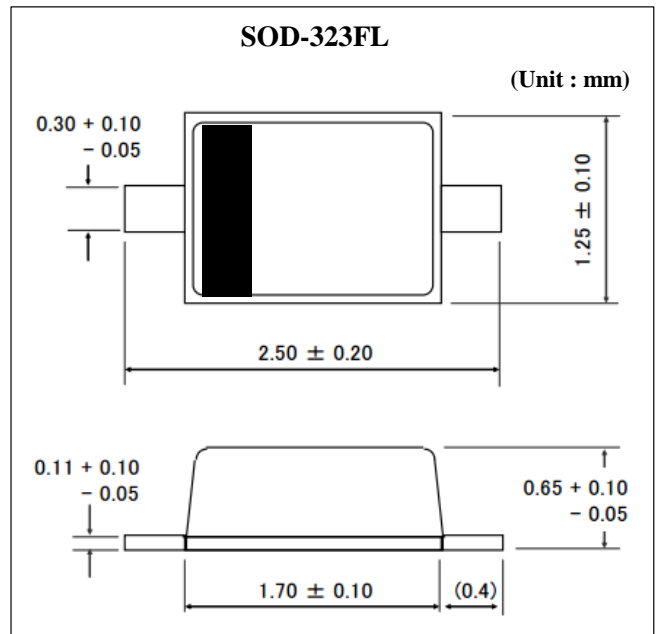
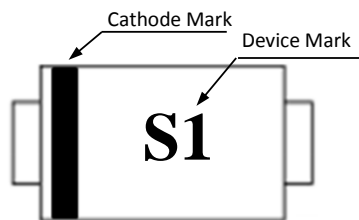
Typical Applications

- High-speed switching.

Mechanical Data

- Case: SOD-323F, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band

Marking



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

Parameter	Symbol	Rated Value	Unit
Maximum Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2	A
Continuous Forward Current	I_O	150	mA
Power Dissipation	P_D	200	mW
Operation Junction Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Max	Unit
Breakdown Voltage	V_R	$I_R = 100\mu\text{A}$	100	-	V
		$I_R = 5\mu\text{A}$	75	-	V
Reverse Current	I_R	$V_R=20\text{V}$	-	25	nA
		$V_R=75\text{V}$	-	5.0	μA
Forward Voltage	V_F	$I_F = 5\text{mA}$	0.62	0.72	V
		$I_F = 10\text{mA}$	-	1.0	V
		$I_F = 100\text{mA}$	-	1.0	V
Capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$	-	4.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}, V_R=6\text{V}, I_{RR}=1\text{mA}, R_L=100\Omega$	-	4.0	ns

Ratings and Characteristics Curves ($T_a=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Typical instantaneous forward characteristics

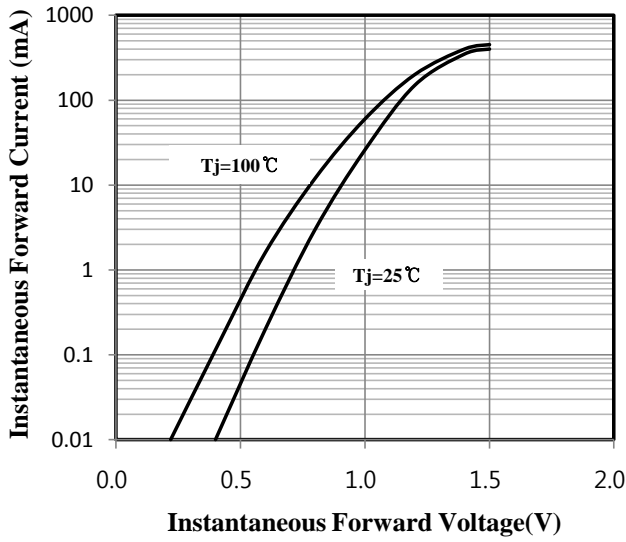


Fig.2 Typical Reverse Characteristics

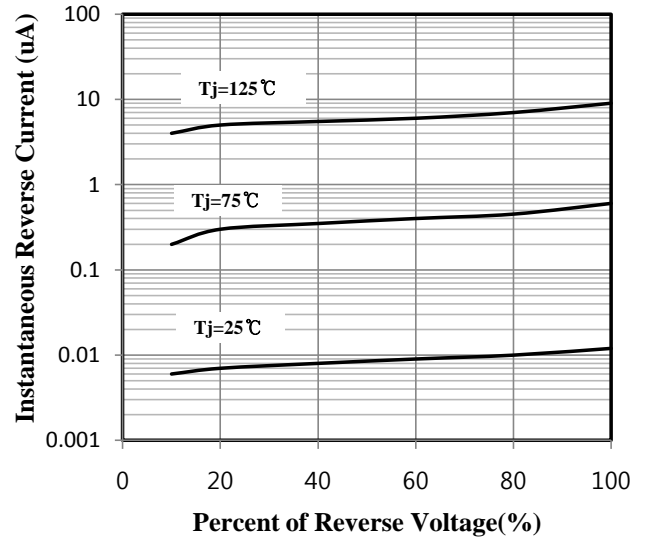


Fig. 3 Admissible power dissipation versus ambient temperature

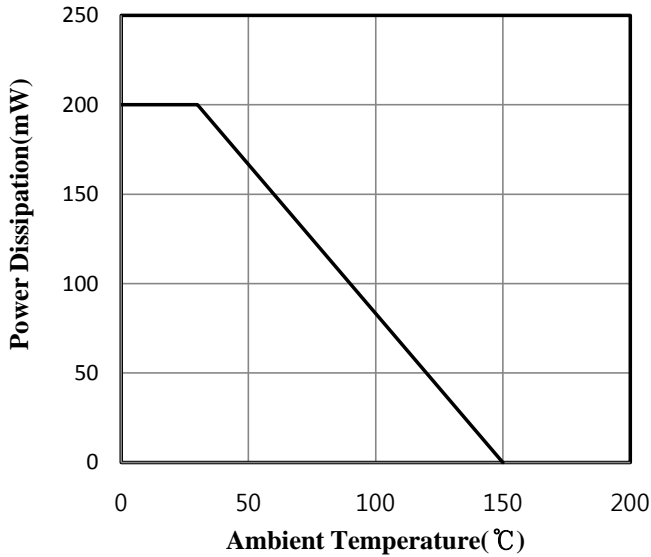


Fig.4 Relative capacitance versus reverse voltage

