

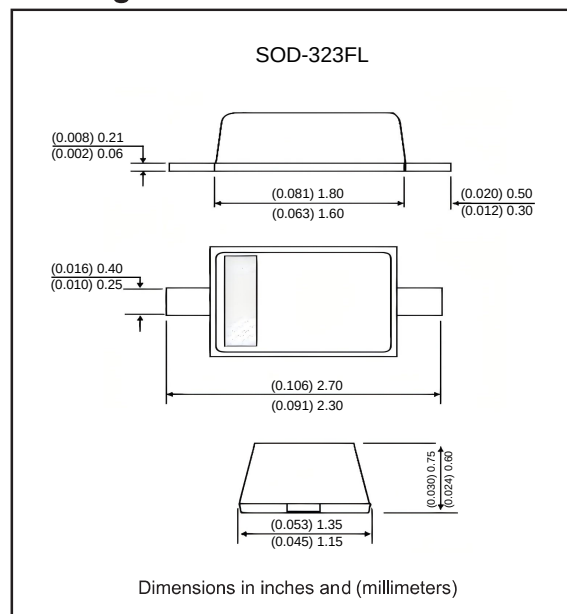
Features

- General purpose diodes
- Fast switching devices
- Compliant to Halogen-free

Mechanical data

- Case: SOD-323FL
- Lead : Matte Tin
- Polarity : Indicated by cathode band
- Mounting Position : Any

Package Outline



Maximum ratings (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

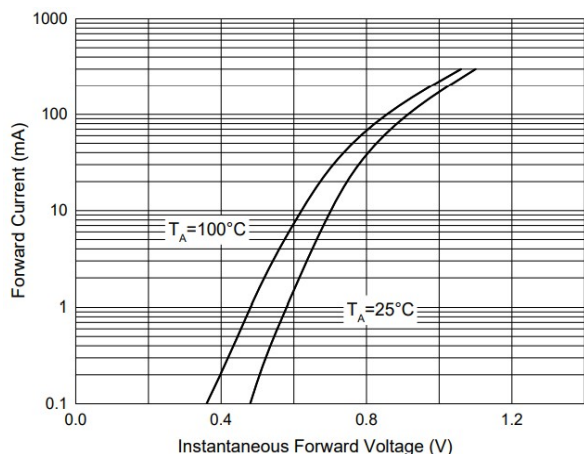
Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Repetitive Peak Reverse Voltage	75	V
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	2	A
I_O	Continuous Forward Current	150	mA
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

*1 Pulse width = 1 μs

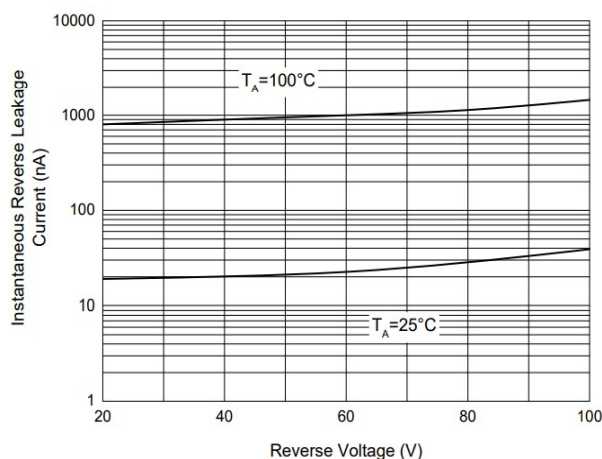
Electrical Characteristics (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Max	Units
BV_R	Breakdown Voltage	$I_R = 100 \mu\text{A}$	100		V
		$I_R = 5 \mu\text{A}$	75		V
I_R	Reverse Current	$V_R = 20\text{V}$		25	nA
		$V_R = 75\text{V}$		5	μA
V_F	Forward Voltage	$I_F = 10\text{mA}$		1	V
C	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$		4	pF
T_{RR}	Reverse Recovery Time	$I_F = 10\text{mA}, V_R = 6\text{V}$ $I_{RR} = 1\text{mA}, R_L = 100 \Omega$		4	ns

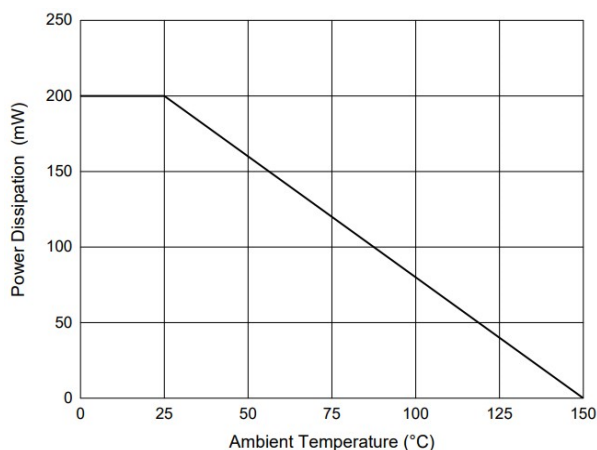
Rating and characteristic curves



Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



Power Derating Curve

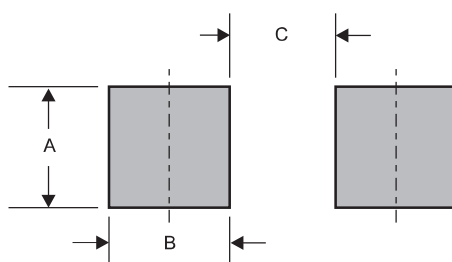
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
1N4148WS-F1	S1

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-323FL	0.032 (0.80)	0.032 (0.80)	0.063 (1.60)