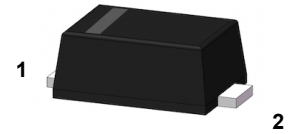


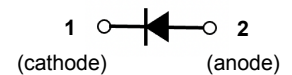
1N4148WSFL Switching Diode

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Low Profile, Typical 0.65mm



Package: SOD-323F



Schematic Diagram

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RSM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC	V _{RRM} V _{RWM}	75	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μs @t=1.0 s	I _{FSM}	2.0 1.0	A
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =100μA I _R =5μA	100 75	-	V
Forward Voltage	V _F	I _F =10mA	-	1.0	V
Reverse Current	I _R	V _R =20V V _R =75V	-	25 5	nA μA
Junction Capacitance	C _J	V _R =0, f=1.0MHz	-	4.0	pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R =6V, I _{RR} =1mA, R _L =100Ω	-	4.0	ns

Ratings and Characteristic Curves

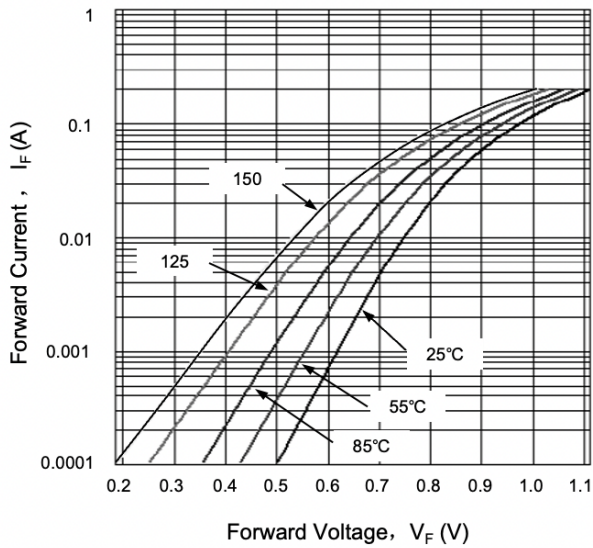


Figure1. Forward Characteristics

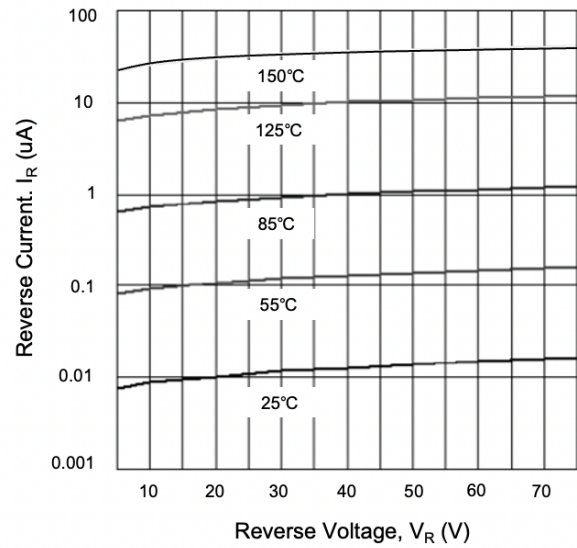


Figure2. Reverse Characteristics

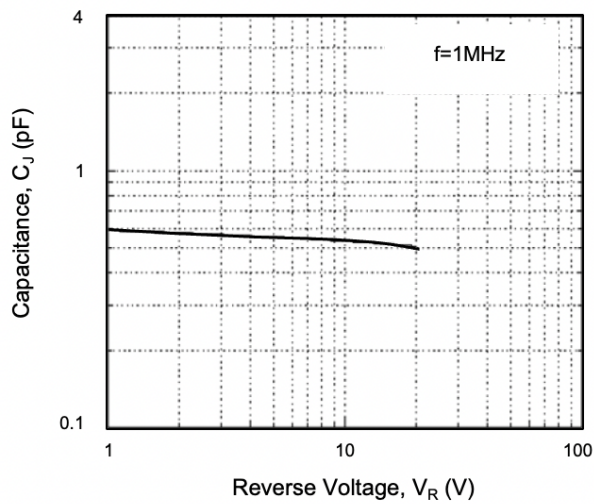


Figure3. Capacitance Characteristics

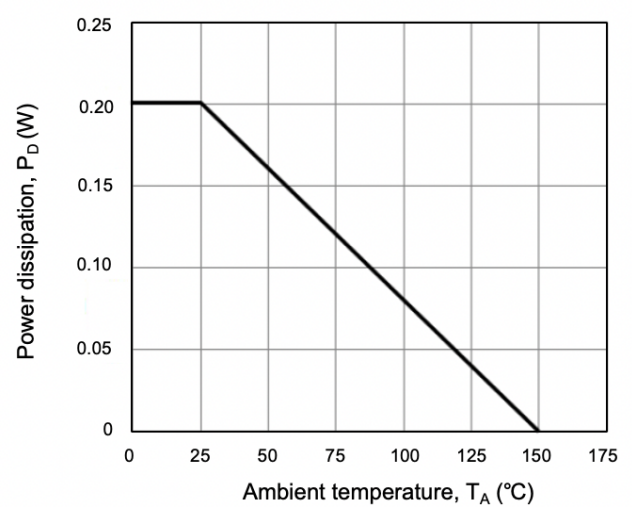
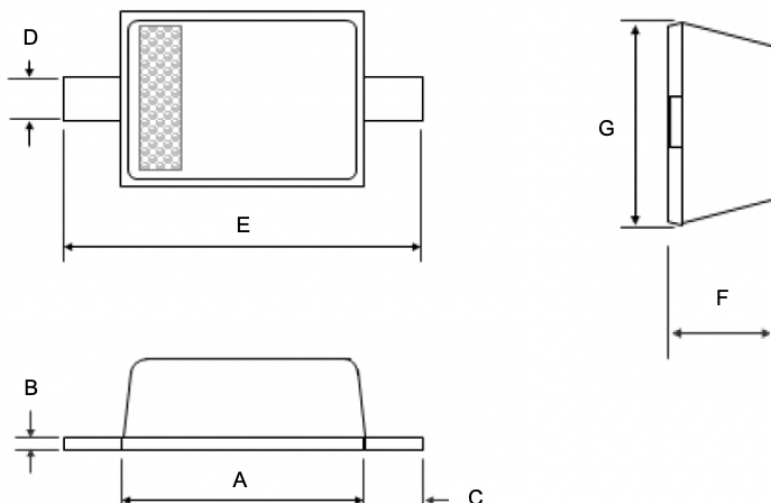


Figure4. Power Derating Curve

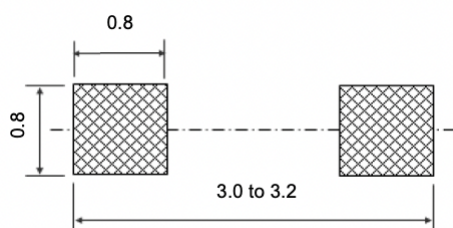
Package Outline Dimensions SOD-323F



Unit: mm

Symbol	A	B	C	D	E	F	G
Max	1.80	0.21	0.50	0.40	2.70	0.75	1.35
Min	1.60	0.06	0.30	0.25	2.30	0.60	1.15

Soldering Pad Layout



Note

1. Dimensions in millimeters
2. Footprint or reference only

Marking and Ordering Information

Device	Package	Carrier	Quantity	Marking
1N4148WSFL	SOD-323F	Tape & Reel	3,000pcs / Reel	T4