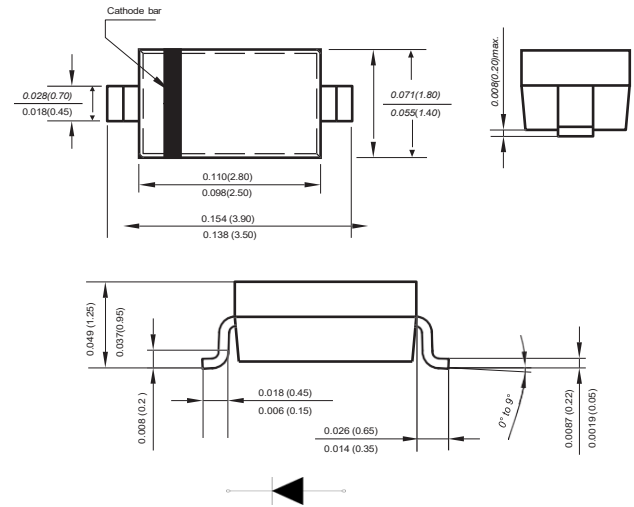


FAST SWITCHING DIODES

Features

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited for automatic insertion
- ◆ For general purpose switching applications
- ◆ High conductance

SOD-123



Dimensions in inches and (millimeters)

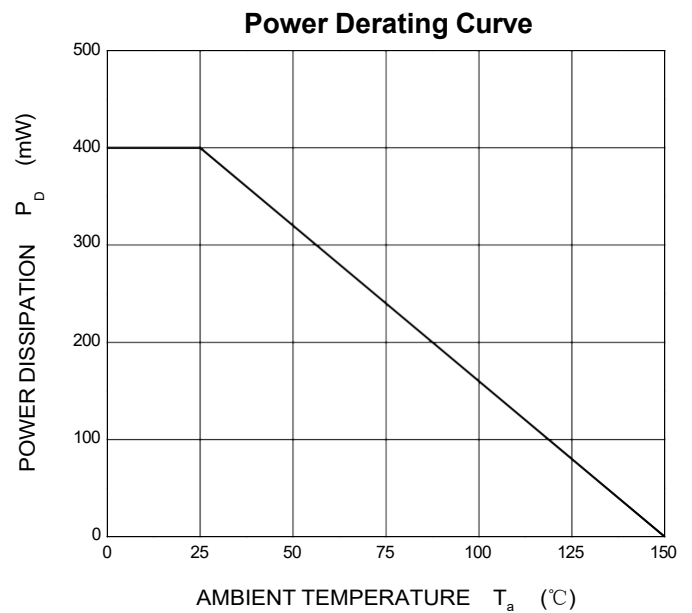
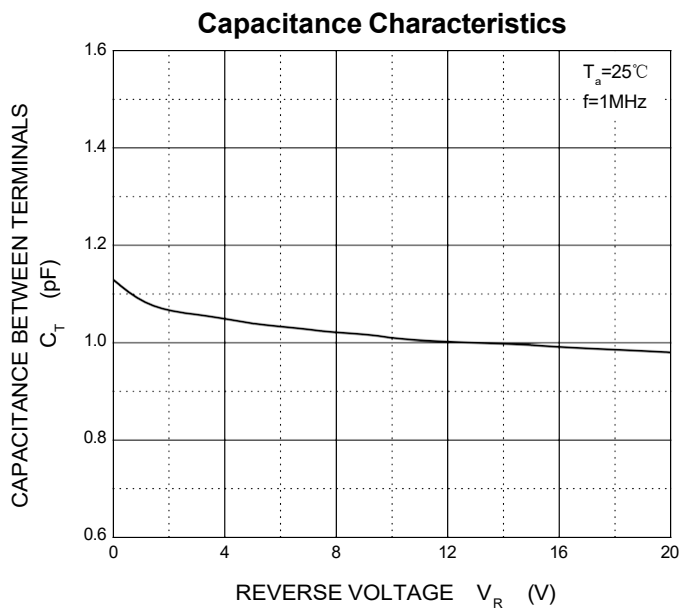
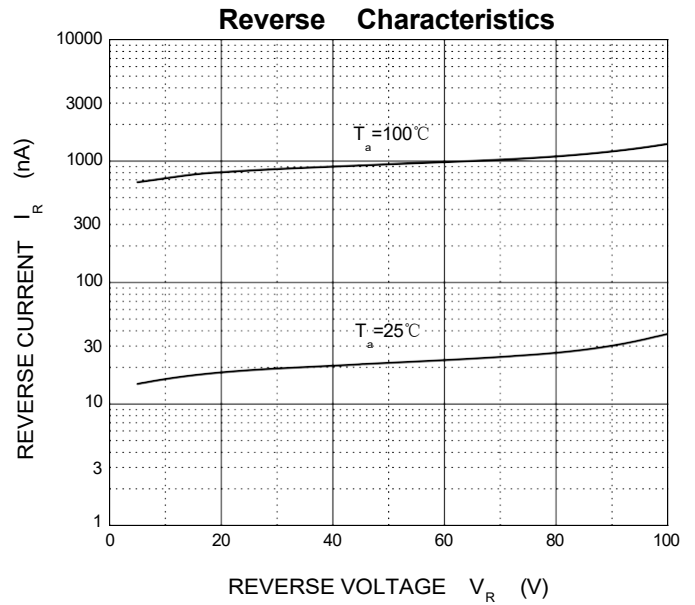
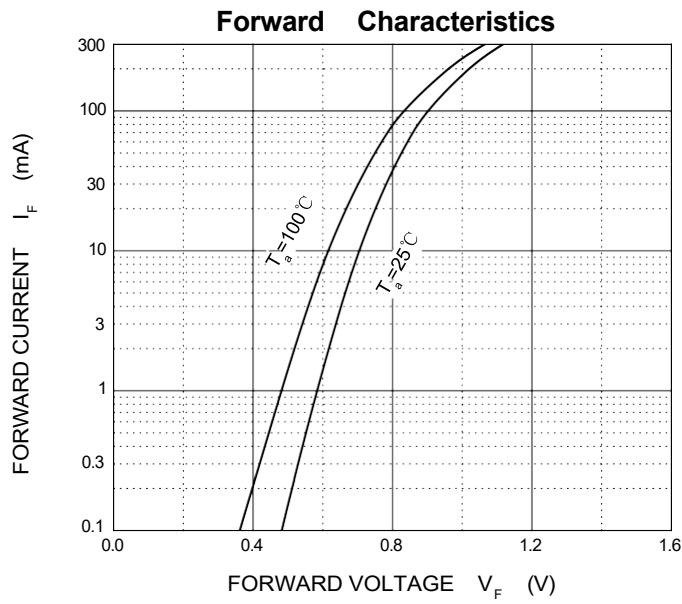
Parameter	Symbols	1N4148W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	V
Average rectified output current	$I_{F(AV)}$	150	mA
Non-reptitive Peak Forward Surge Current	I_{FSM}	0.5 1 4	A
Total Power Dissipation	P_{tot}	400	mW
Typical Thermal Resistance ⁽¹⁾	$R_{\theta JA}$	280	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

(1) P.C.B. mounted with 5 X 5 mm copper pad areas.

Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbols	1N4148W	Units
Reverse Breakdown Voltage at $I_R = 1\mu A$	$V_{(BR)R}$	75	V
Maximum Forward Voltage	V_F	0.715 0.855 1.00 1.25	V
Peak Reverse Current	I_R	0.025 1 30 50	uA
Typical Junction Capacitance	C_j	2	pF
Maximum Reverse Recovery Time	t_{rr}	4	ns

Typical Characteristics



The curve above is for reference only.