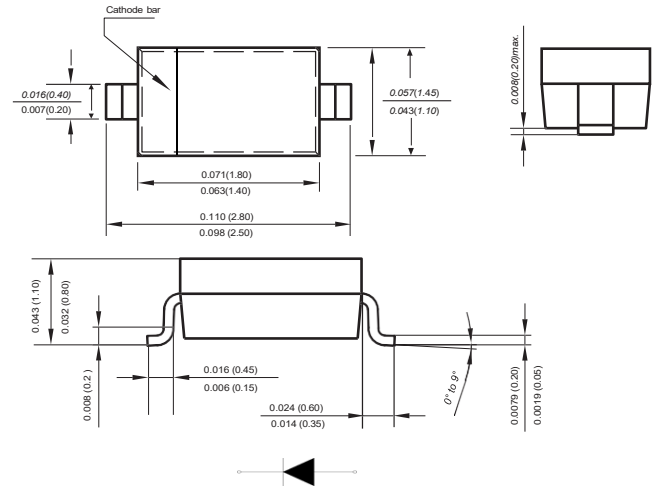


FAST SWITCHING DIODES

Features

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

SOD-323



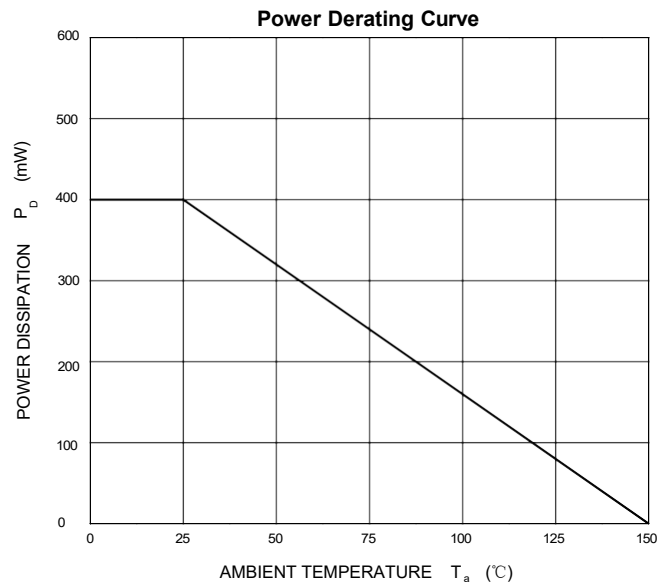
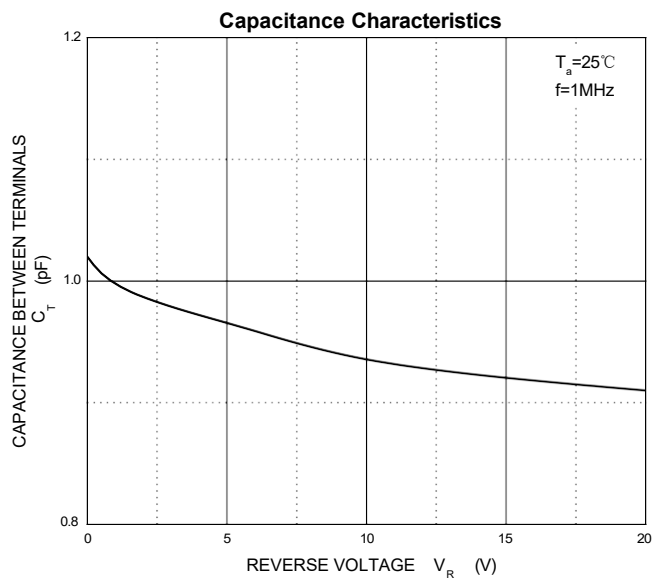
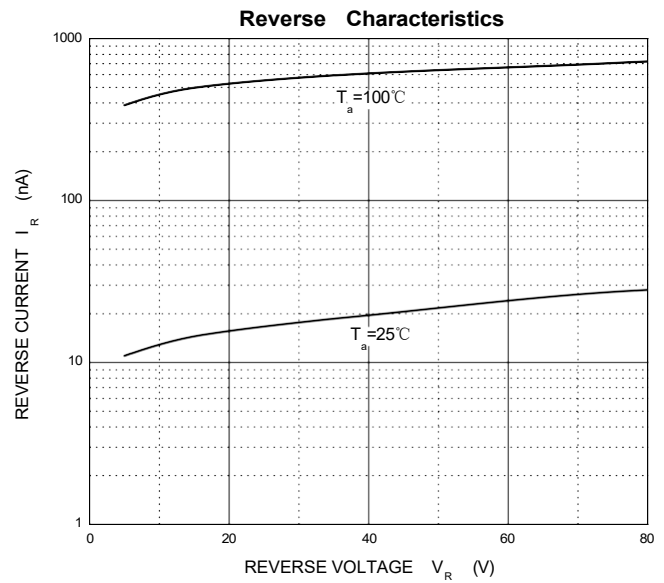
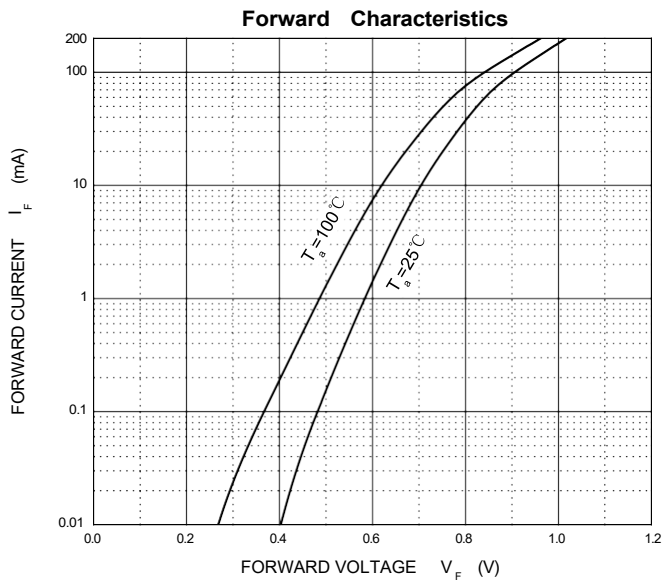
Dimensions in inches and (millimeters)

PARAMETER	SYMBOLS	1N4148WS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	
Reverse Breakdown voltage at $I_R=1\mu A$	$V_{(BR)R}$	75	
Forward continuous current	I_{FM}	300	mA
Average rectified output current	I_o	150	mA
Peak forward current at 1s	I_{FSM}	0.5	A
at 1ms		1	
at 1us		4.0	
Power dissipation	P_d	400	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	250	$^{\circ}C/W$
Junction temperature	T_j	-55 to +150	$^{\circ}C$
Storage temperature	T_{STG}	-55 to +150	$^{\circ}C$

Characteristics at $T_a=25^{\circ}C$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}			0.715	V	$I_F=1.0mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			0.025	μA	at $V_R=20V$ $T_j=25^{\circ}C$
	I_{R2}			1	μA	at $V_R=75V$ $T_j=25^{\circ}C$
	I_{R3}			30	μA	at $V_R=25V$ $T_j=150^{\circ}C$
	I_{R4}			50	μA	at $V_R=75V$ $T_j=150^{\circ}C$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1.0MHz$
Reverse recovery time	t_{rr}			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characteristics



The curve above is for reference only.