



1N4448WSH

SWITCHING DIODE

FEATURES

- Fast Switching Diode
- Suffix "H" indicates Halogen-free parts, ex. 1N4448WSH

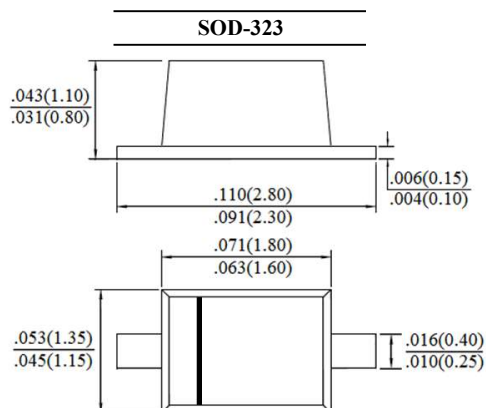
MECHANICAL DATA

Case : SOD-323

Epoxy : UL 94V-O rate flame retardant

Polarity : Indicated by cathode band

Mounting position : Any



Dimensions in inch and (millimeter)

Maximum Ratings@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Forward Continuous Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current at $t=1\mu\text{s}$	I_{FSM}	0.5	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$



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Electrical Characteristics@ $T_A=25^\circ\text{C}$

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R=100\mu\text{A}$	$V_{(BR)R}$	80	-	V
Forward Voltage	$I_F=5\text{mA}$	V_F	0.620	0.720	V
	$I_F=10\text{mA}$		-	0.855	
	$I_F=100\text{mA}$		-	1.000	
	$I_F=150\text{mA}$		-	1.250	
Reverse Leakage Current	$V_R=75\text{V}$	I_R	-	100	nA
	$V_R=20\text{V}$		-	25	
	$V_R=75\text{V}, T_J=150^\circ\text{C}$		-	50	μA
	$V_R=25\text{V}, T_J=150^\circ\text{C}$		-	30	
Total Capacitance	$V_R=0.5\text{V}, f=1\text{MHz}$	C_T	-	4	pF
Reverse Recovery Time	$I_F=I_R=10\text{mA}, I_{tr}=0.1\times I_R\text{mA}, R_L=100\Omega$	t_{rr}	-	4	ns



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RATINGS AND CHARACTERISTIC CURVES

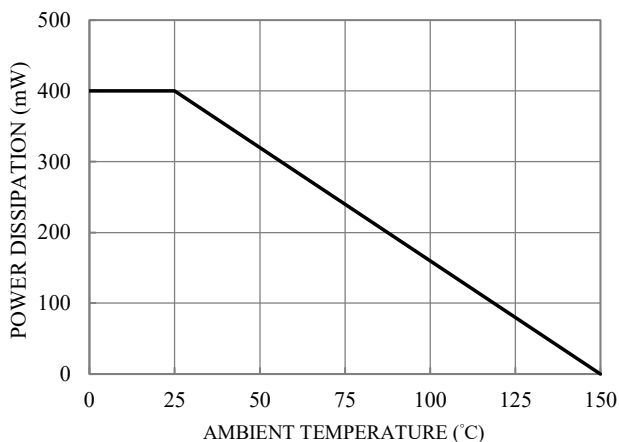


Fig.1-POWER DERATING CURVE

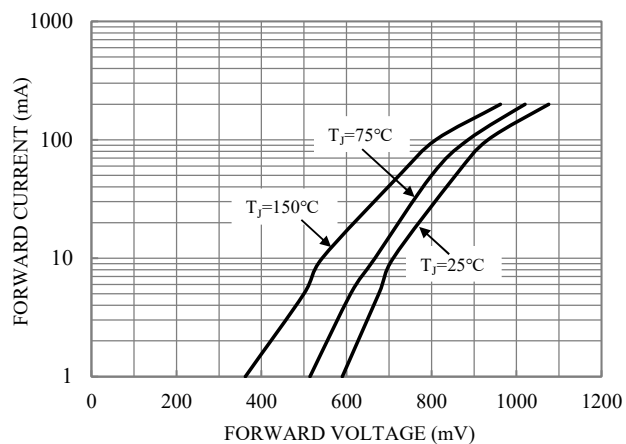


Fig.2-TYPICAL FORWARD CHARACTERISTICS

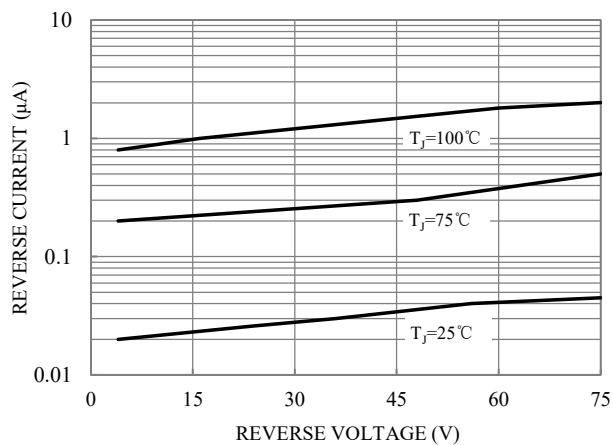


Fig.3-TYPICAL REVERSE CHARACTERISTICS

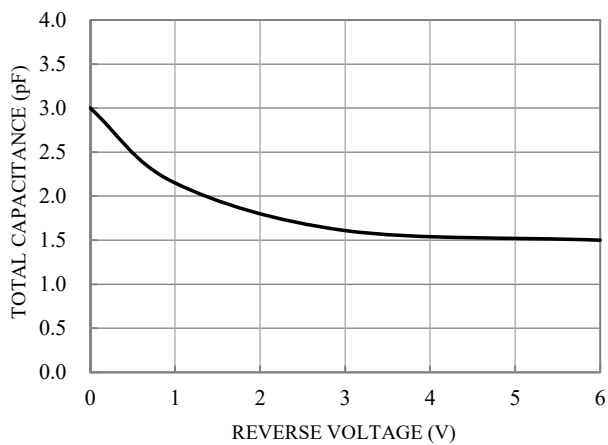


Fig.4-TOTAL CAPACITANCE VS REVERSE VOLTAGE