

# 1N4148W

## FAST SWITCHING DIODES

### FEATURES

- Fast Switching Device ( $T_{RR} < 4.0$  nS)
- General Purpose Diodes
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. 1N4148WH

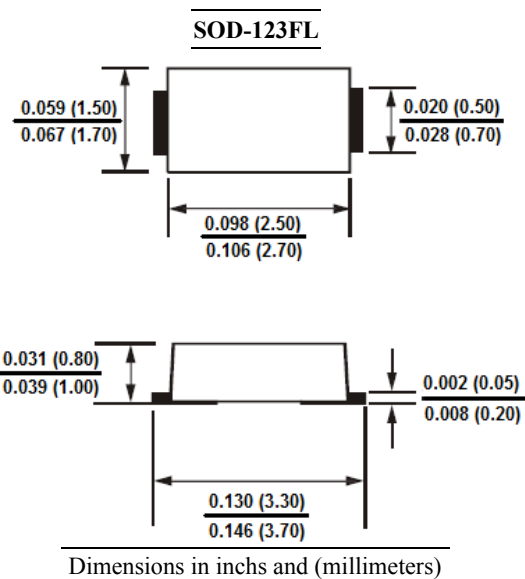
### MECHANICAL DATA

Case : SOD-123FL

Polarity : Color band denotes cathode end

Mounting position : Any

Weight : approx. 0.009 g



### Absolute Maximum Ratings

$T_{amb} = 25$  °C, unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	75	Volts
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	100	Volts
Continuous Forward Current	$I_O$	150	mAmp
Repetitive Peak Forward Current	$I_{FRM}$	300	mAmp
Power Dissipation	$P_D$	400	mWatt
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{stg}$	-65 to +150	°C

### Electrical Characteristics

$T_{amb} = 25$  °C, unless otherwise specified

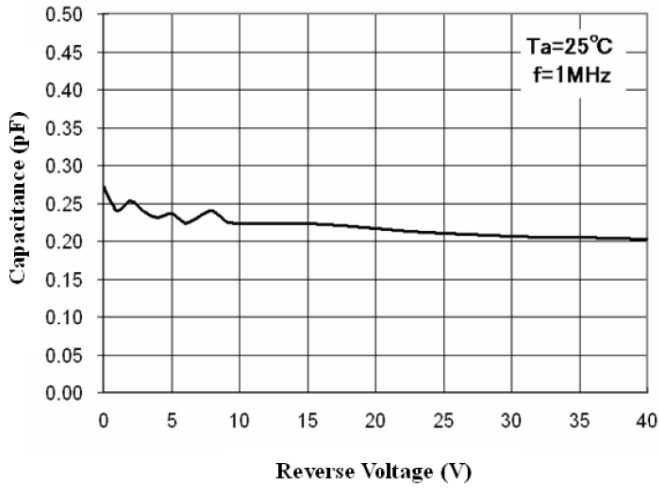
Parameter	Symbol	Test Condition	Min.	Max.	Units
Forward Voltage	$V_F$	$I_F=10mA$	-	1.0	V
Reverse Leakage Current	$I_R$	$V_R=20V$	-	25	nA
		$V_R=75V$	-	5	uA
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu A$	100	-	V
		$I_R=5\mu A$	75	-	
Capacitance	$C_{TOT}$	$V_R=0V, f=1MHz$	-	4	pF
Reverse Recovery Time	$T_{RR}$	$I_F=10mA, I_R=60mA$ $R_L=100\Omega, I_{RR}=1mA$	-	4	nS

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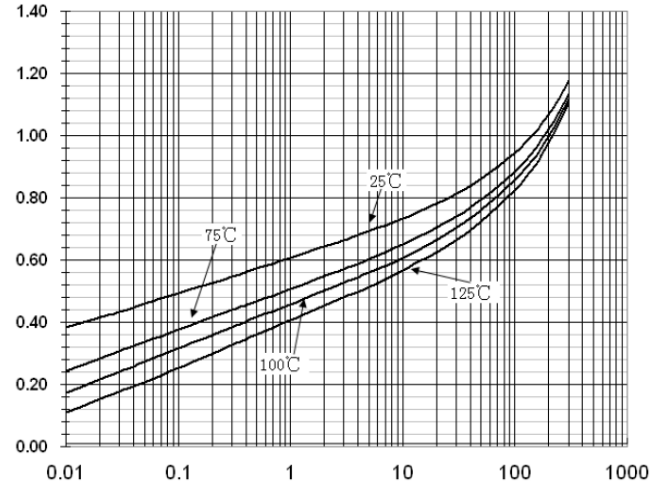
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### RATINGS AND CHARACTERISTIC CURVES

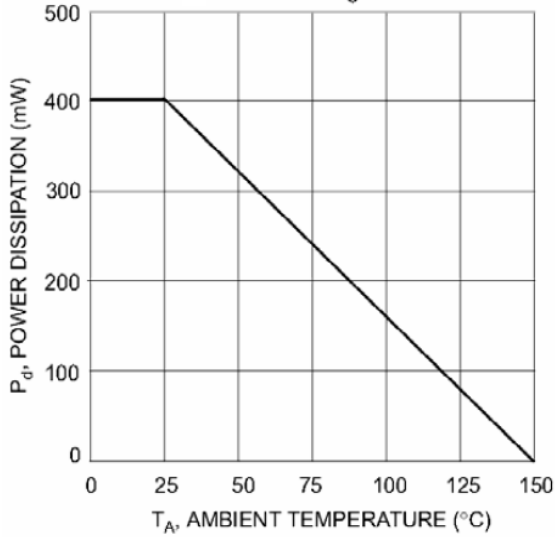
Total Capacitance



Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage

