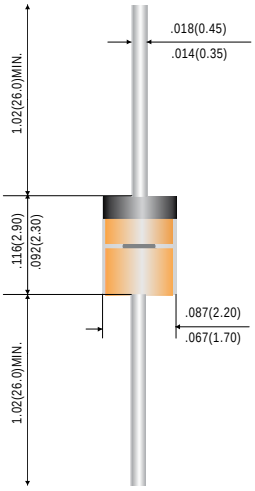
1N4148M

SMALL SIGNAL SWITCHING DIODE



DO-34

Dimensions in inches and (millimeters)

Ordering Information	
Part Number	**Remark**
1N4148M	**Normal**
1N4148M-H	**Green Compound**

FEATURES

- Fast switching Speed.
- Electrically Identical to Standerd JEDEC
- High Conductance
- Axial lead Package Ideally Suited for Automatic Insertion.
- Both normal and Pb free product are available :
  Normal : 80~95% Sn, 5~20% Pb
  Pb free: 98.5% Sn above

MECHANICAL DATA

- Case: Molded Glass DO-34
- Terminals: Solderable per MIL-STD-202E, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 0.09 grams
- Mounting Position: Any

Electrical Characteristics (Ta=25°C)

Ratings	SYMBOL	Value	Unit
Reverse Voltage	V_R	67	V
Peak Reverse Voltage	V_{RM}	90	V
RM S Voltage	V_{RMS}	45	V
Maxim um Average Forward C urrentatTa=25°C And f> 50Hz	I_{AV}	130	mA
Surge Forward C urrentatt< 1s and Tj=25°C	I_{FSM}	500	mA
PowerD issipation atTam b= 25°C	P_{TOT}	500	mW
Maxim um Forward Voltage at IF =10m A	V_F	1	V
Maxim um Leakage Current at VR =20V at VR =75V at VR =20V ,TJ= 150°C	I_R	 25 5 50	 nA µA µA
Maximum Capacitance (Note 1)	C_J	4	pF
Maximum Reverse RecoveryTim e (Note 2)	Trr	4	ns
Maximum Thermal Resistance	$R_{\theta JA}$	350	°C /W
Junction Tem perature and Storage Tem perature Range	T_J , T_S	-55 ~ 150	°C

NOTE:

1. CJ at VR=0, f=1MHZ
2. From IF=10mA to IR=1mA, VR=6Volts, RL=100Ω

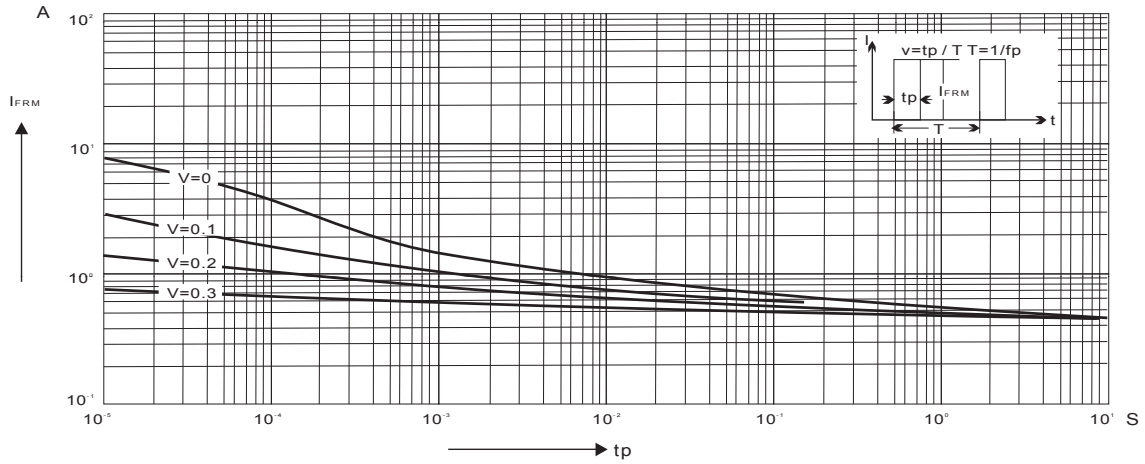


Fig.1ADMISSIBLEREPETITIVEPEAKFORWARDCURRENTVERSUSPULSEDURATION

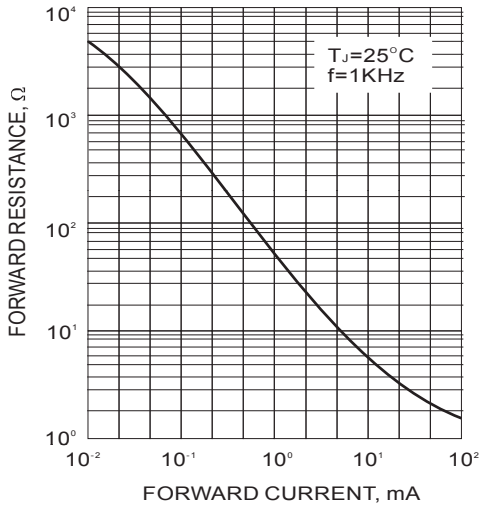


Fig.2-DYNAMICFORWARDRESISTANCE VERSUSFORWARDCURRENT

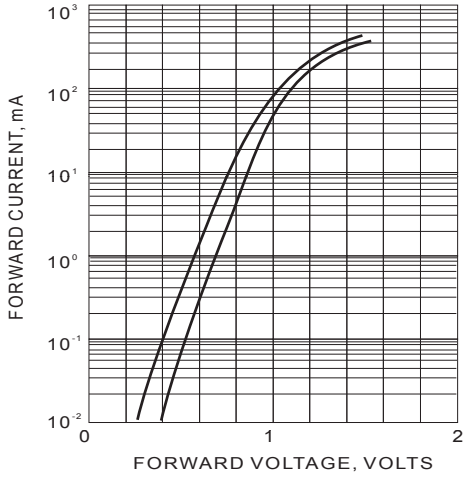


Fig.3FORWARDCHARACTERISTICS

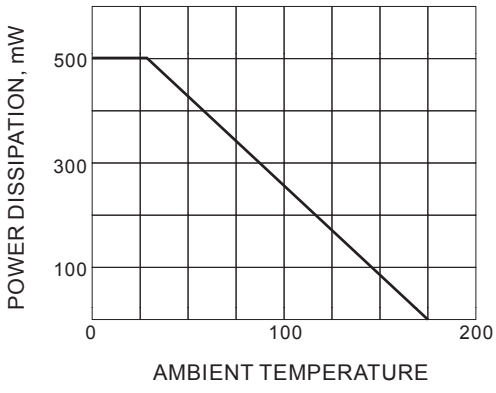


Fig.4DERATINGCURVE

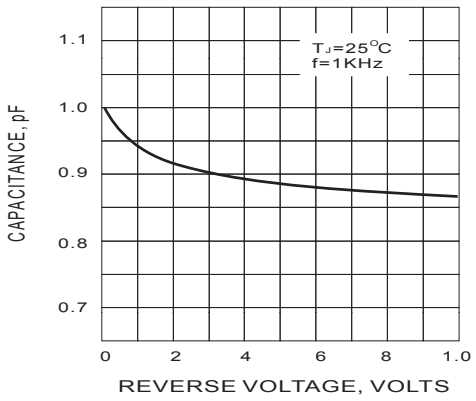


Fig.5TYPICALJUNCTIONCAPACITANCE