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Micro Commercial Components

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1N4148M

500mW High Speed Switching Diode 100 Volt

Features

- High Reliability
- High Speed
- DO-34 Package
- Marking : Cathode band and type number

Maximum Ratings

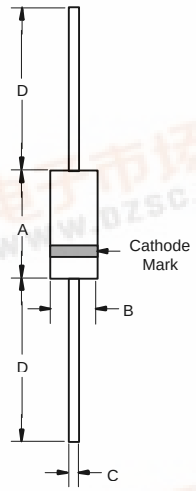
- Operating Temperature Range: -65℃ to +175℃
- Storage Temperature Range: -65℃ to +175℃
- Maximum Thermal Resistance: 350K/W Junction To Ambient
  Test Conditions: l = 4mm T_L = constant

Electrical Characteristics @ 25℃ Unless Otherwise Specified

Reverse Voltage	V_R	75V	
Breakdown Voltage	V_{BR}	100V	I_R=100 μA
Average Forward Current	I_O	150MA	
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	175℃	
Peak Forward Surge Current	I_{FSM}	2.0A	t_p = 1.0 μs
Maximum Instantaneous Forward Voltage	V_F	1.00V	I_F = 10mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 5.0μA 50μA	V_R=20V; T_J = 25℃ V_R=75V; T_J = 25℃ V_R=20V; T_J =150℃
Maximum Junction Capacitance	C_J	4.0pF	Measured at 1.0MHz, V_R=0V
Maximum Reverse Recovery Time	T_{rr}	4.0ns	I_F=10mA; V_R = 6V R_L=100Ω

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

DO-34



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.094	0.118	2.4	3.0	
B	0.063	0.079	1.6	2.0	
C	0.012	0.020	0.3	0.5	
D	1.102	1.181	28	30	

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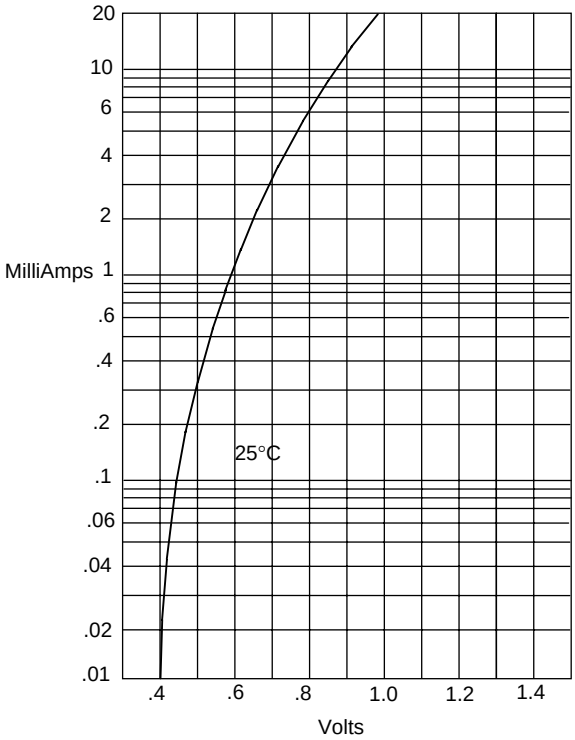
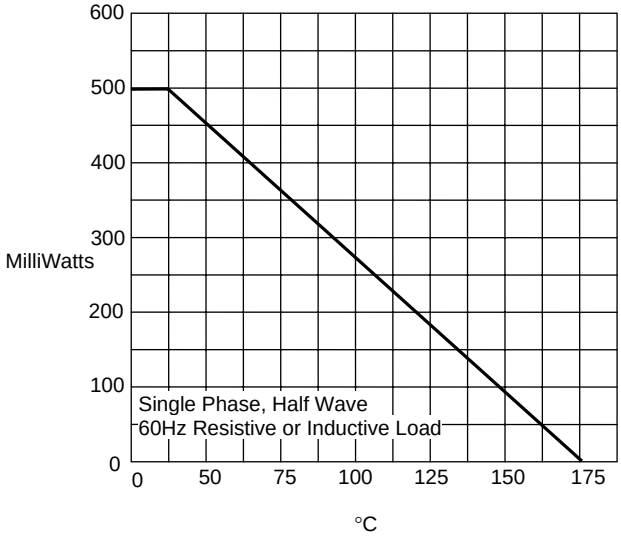
Figure 1
Typical Forward Characteristics



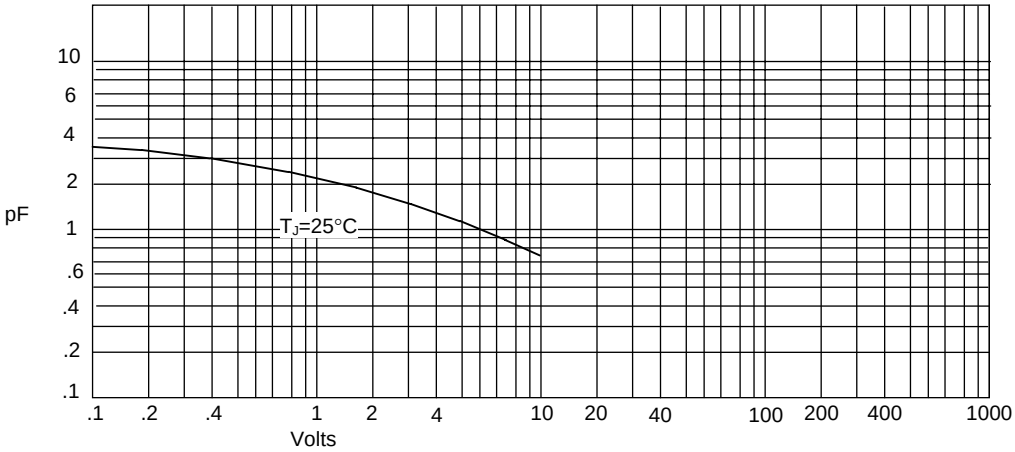
Instantaneous Forward Current - MilliAmperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



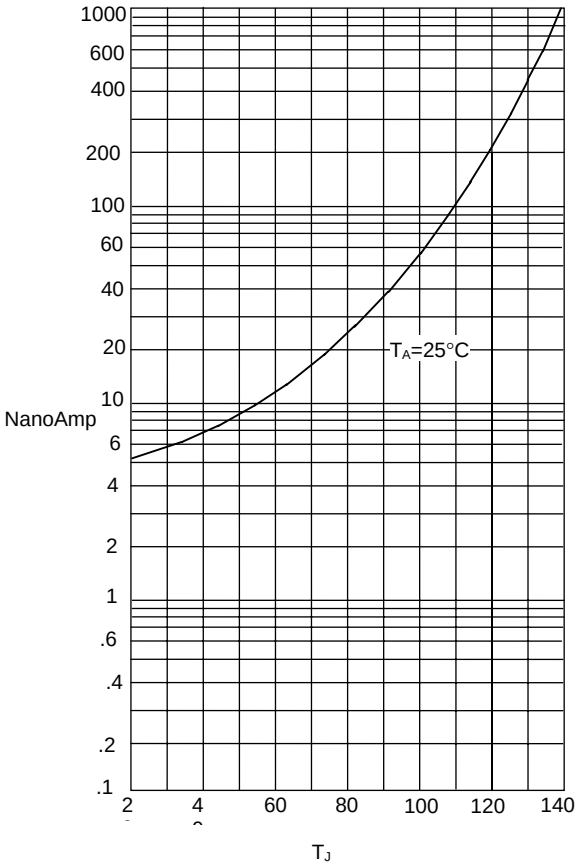
Admissable Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



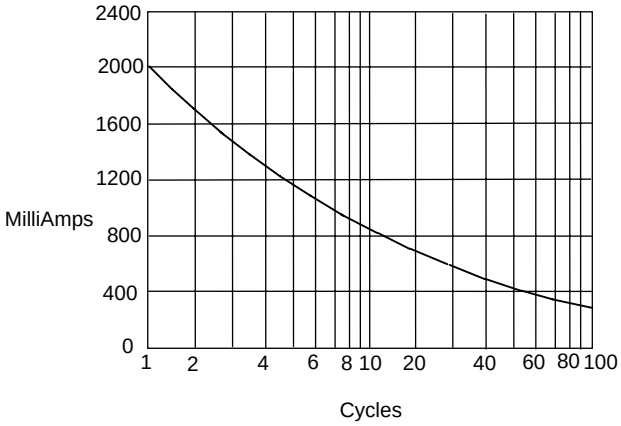
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes *versus* Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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