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1N4148

Features

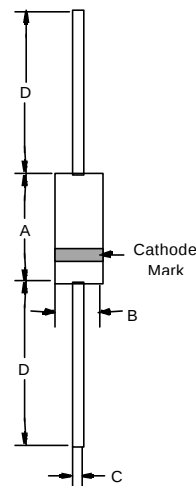
- Low Current Leakage
- Compression Bond Construction
- Low Cost

**500mW 100 Volt
Silicon Epitaxial Diode**

Maximum Ratings

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance; 35°C/W Junction To Ambient

DO-35

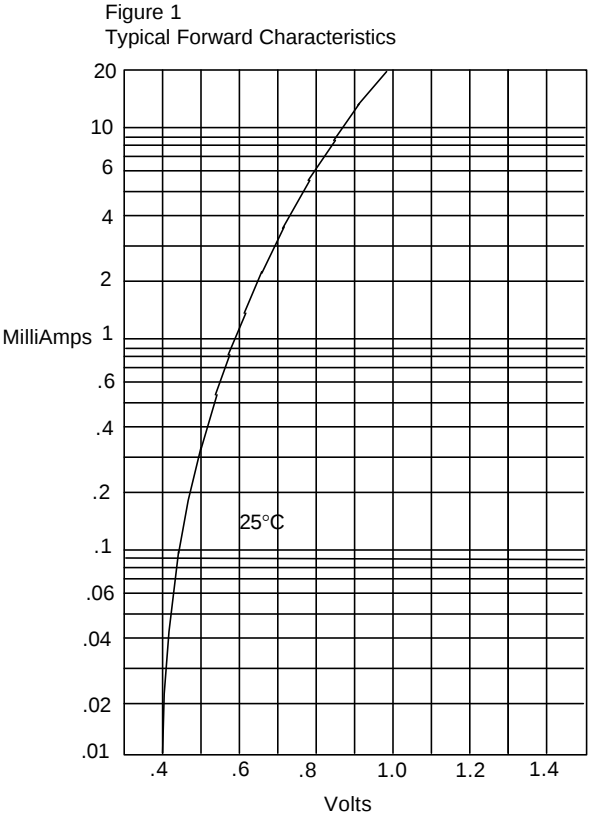


Electrical Characteristics @ 25°C Unless Otherwise Specified

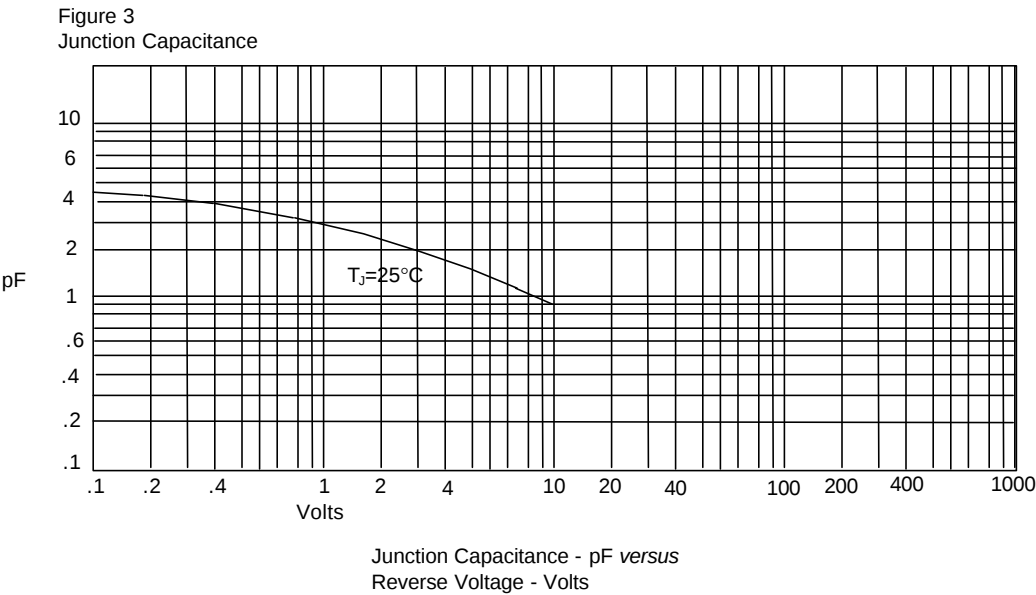
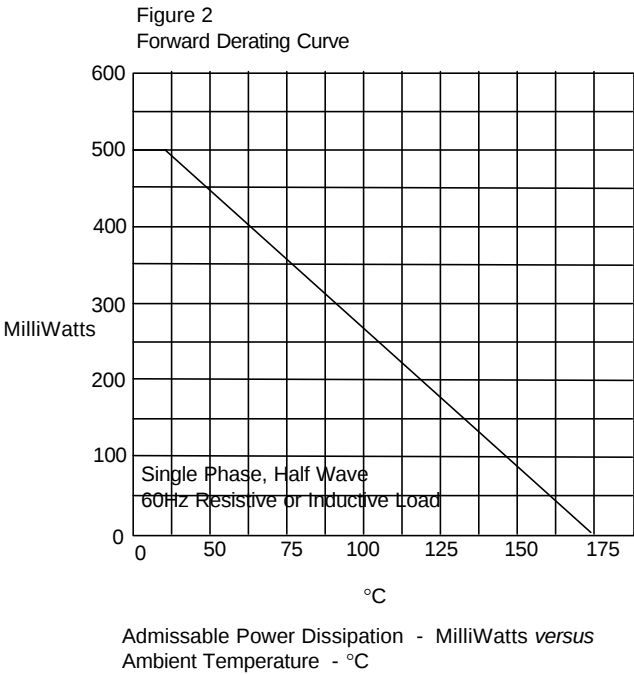
Reverse Voltage	V_R	75V	
Peak Reverse Voltage	V_{RM}	100V	
Average Rectified Current	I_O	150mA	Resistive Load $f > 50\text{Hz}$
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	200°C	
Peak Forward Surge Current	I_{FSM}	500mA	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 10\text{mA};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 50 μA	$V_R = 20\text{Volts}$ $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Typical Junction Capacitance	C_J	4pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$
Reverse Recovery Time	T_{rr}	4nS	$I_F = 10\text{mA}$ $V_R = 6\text{V}$ $R_L = 100\Omega$

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

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	



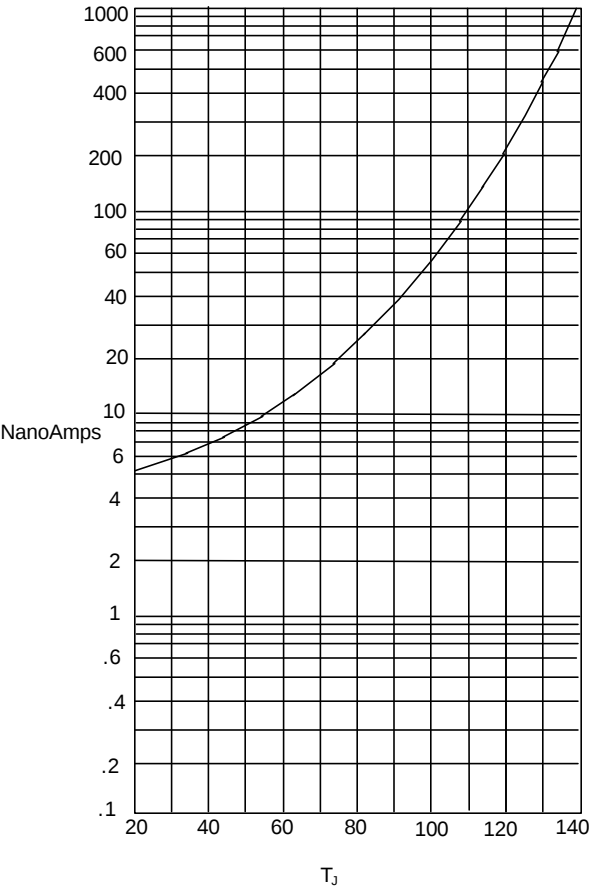
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts



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Figure 4
Typical Reverse Characteristics

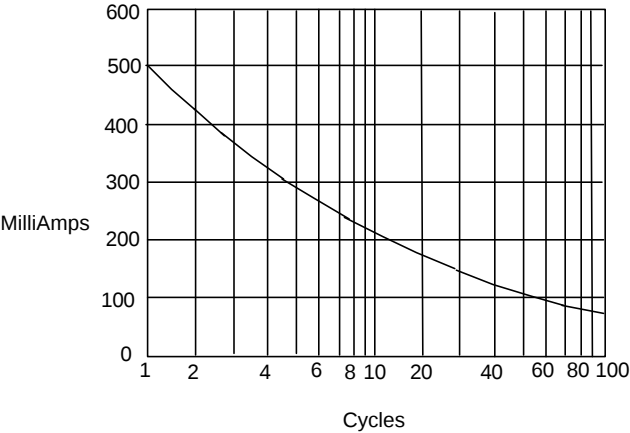


Instantaneous Reverse Leakage Current - NanoAmperes *versus*
Junction Temperature - °C

T_A=25°C

T_A=100°C

Figure 5
Peak Forward Surge Current



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