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Features

- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 35 °C/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

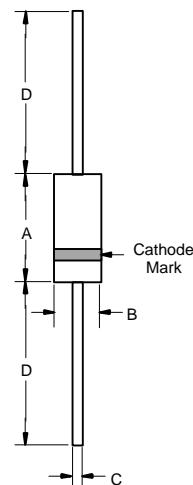
Reverse Voltage	V_R	75V	
Peak Reverse Voltage	V_{RM}	100V	
Average Rectified Current	I_O	150mA	Resistive Load $f \geq 50\text{Hz}$
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	150°C	
Peak Forward Surge Current	I_{FSM}	500mA	$t < 1\text{s}$
Instantaneous Forward Voltage	V_F	1.0V(MAX) 0.62-0.72V	$I_{FM} = 100\text{mA};$ $I_{FM} = 5.0\text{mA}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 50μA 5uA	$V_R=20\text{Volts}$ $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$ $V_R=75\text{Volts}$
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%

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**500mW 100Volt
Switching Diode**

DO-35

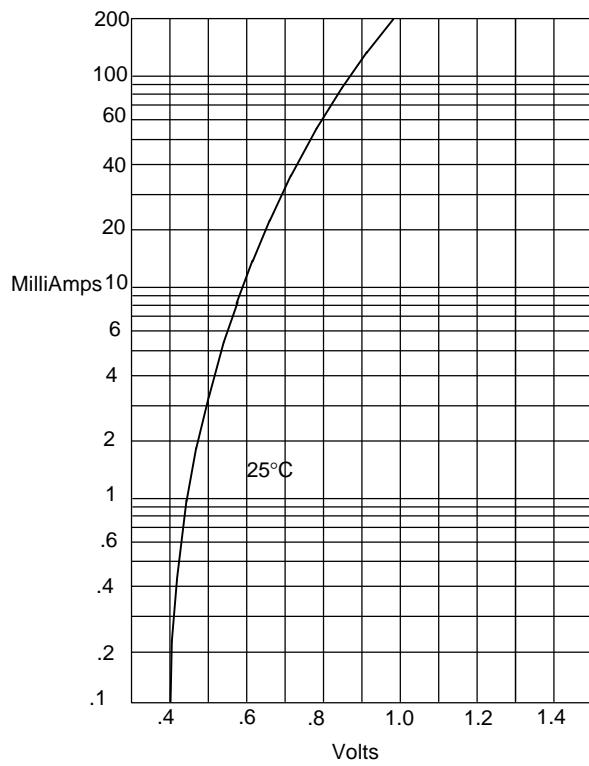


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

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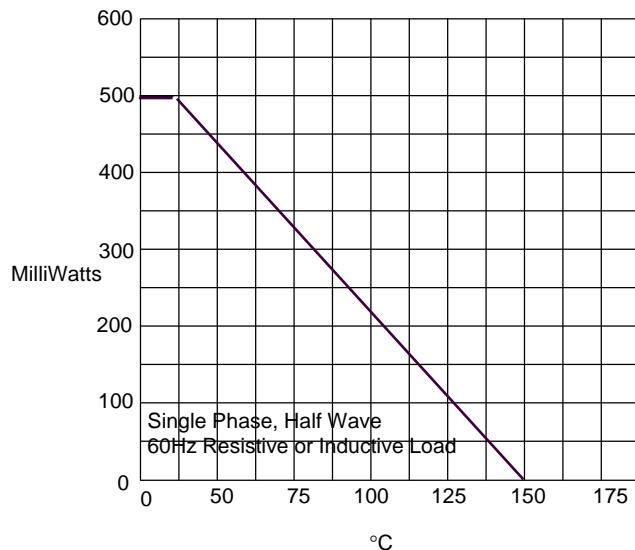
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Figure 1
Typical Forward Characteristics



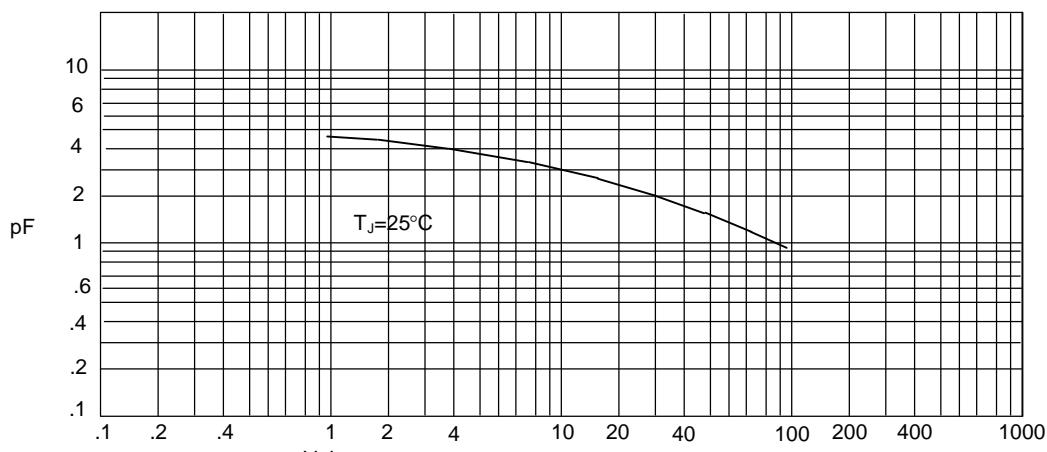
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Admissible Power Dissipation - MilliWattsversus
Ambient Temperature - °C

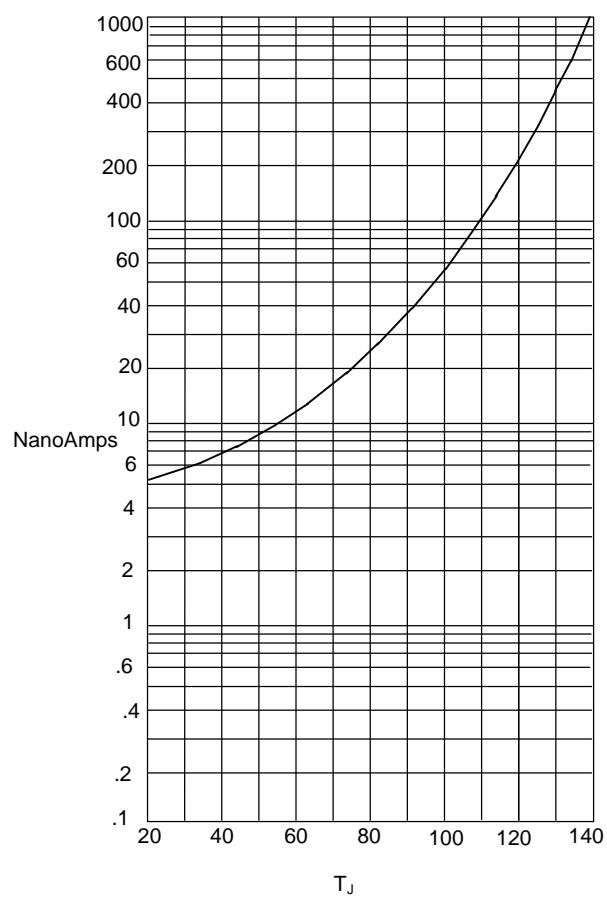
Figure 3
Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

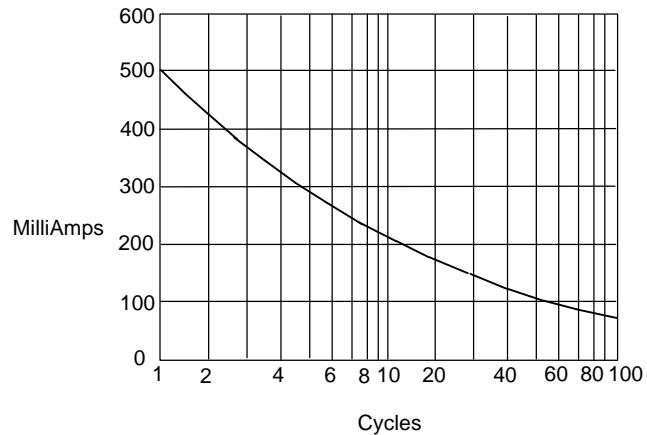
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperesversus
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles

$T_A=25^\circ\text{C}$
 $T_A=100^\circ\text{C}$