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Features

- Low Current Leakage
- Compression Bond 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

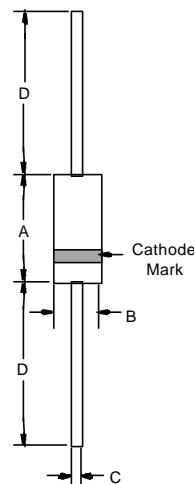
Reverse Voltage	V_{RM}	75V	
DC Blocking Voltage	V_R	50V	
Average Rectified Current	I_o	150mA	Resistive Load $f > 50\text{Hz}$
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	150°C	
Peak Forward Surge Current	I_{FSM}	500mA	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 50\text{mA};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	50nA	$V_R=50\text{Volts}$ $T_J = 25^\circ\text{C}$
Typical Junction Capacitance	C_J	2pF	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 75 Volt Silicon Epitaxial Diode

DO-35

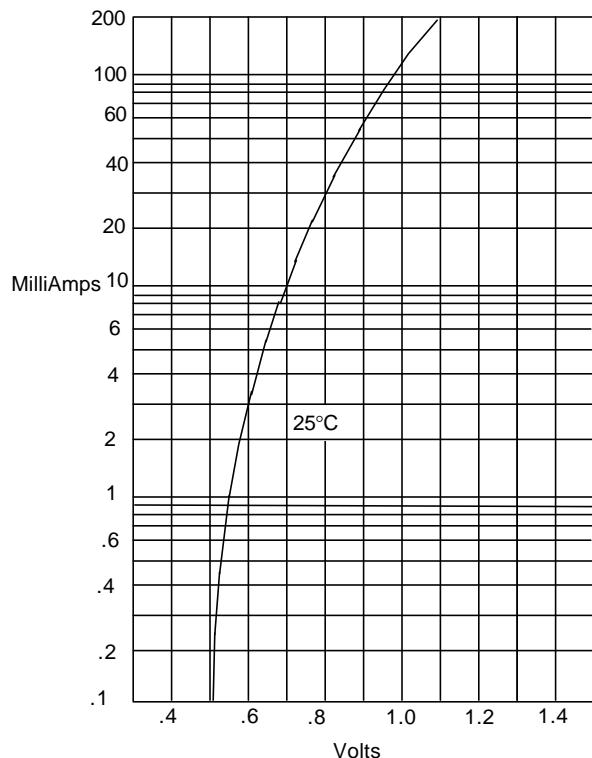


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	--	.166	--	4.2	
B	--	.079	--	2.00	
C	--	.020	--	.52	
D	1.000	--	25.40	--	

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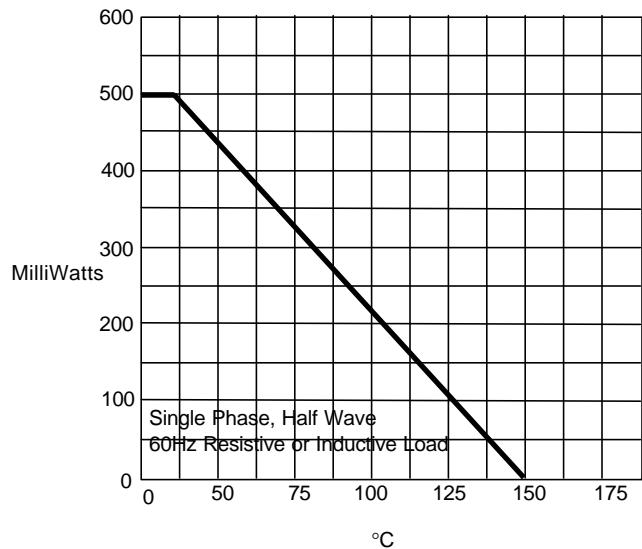
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Figure 1
Typical Forward Characteristics



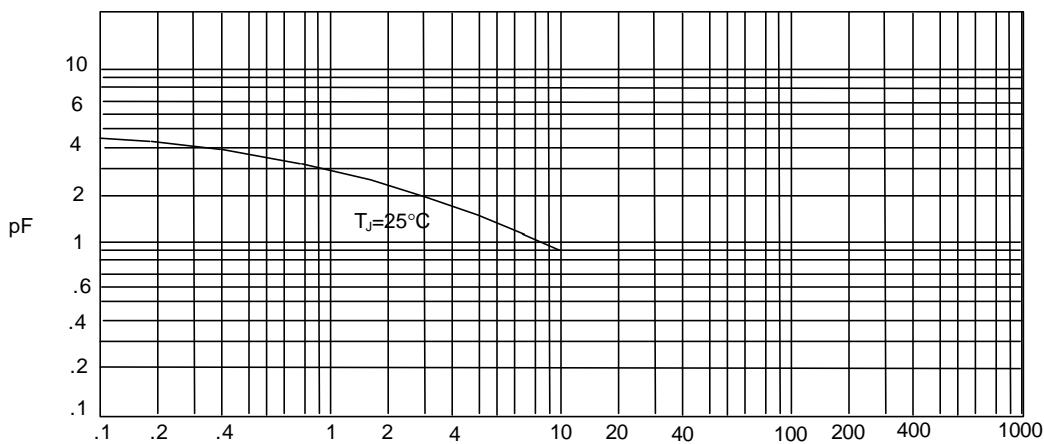
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Admissible Power Dissipation - MilliWatts versus
Ambient Temperature - °C

Figure 3
Junction Capacitance

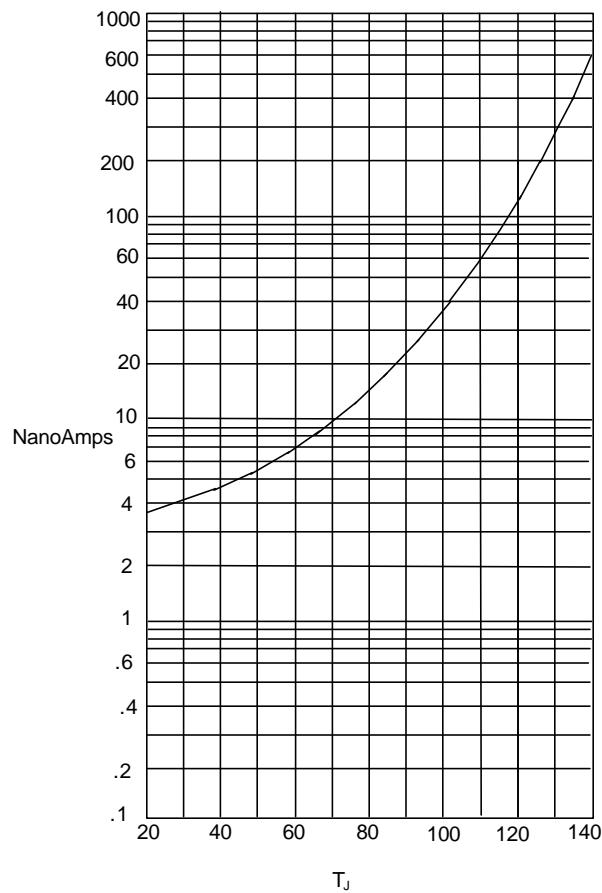


Junction Capacitance - pF versus
Reverse Voltage - Volts

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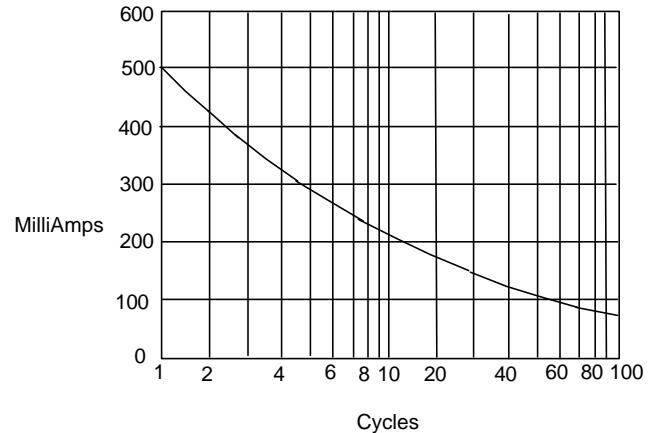
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Figure 4
Typical Reverse Characteristics



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

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

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