

HIGH CONDUCTANCE LOW LEAKAGE DIODES

T-01-09
1N3595
1N6099

ABSOLUTE MAXIMUM RATINGS

- B_V 150 V (MIN) @ 100 μ A
- V_F 1.0 V @ 200 mA

Temperatures

Storage Temperature Range
Maximum Junction Operating Temperature
Lead Temperature

-65 °C to +200 °C
+175 °C
+260 °C

Power Dissipation

Maximum Total Power Dissipation at 25 °C Ambient
Linear Power Derating Factor (from 25 °C)

500 mW
3.33 mW/ °C

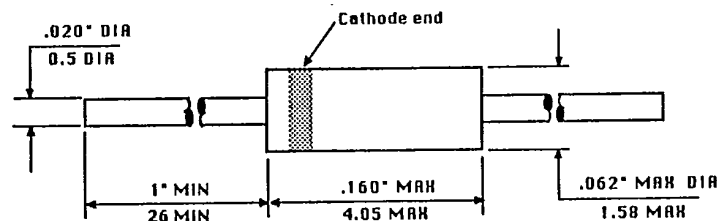
Maximum Voltage and Currents

WIV Working Inverse Voltage
 I_O Average Rectified Current
 I_F Forward Current Steady State
 I_F Peak Repetitive Forward Current
 i_F (surge) Peak Forward Surge Current
Pulse Width = 1.0 μ s
Pulse Width = 1.0 s

125 V
200 mA
500 mA
600 mA
4.0 A
1.0 A

ELECTRICAL CHARACTERISTICS (25 °C Ambient Temperature unless otherwise noted)

SYMBOL	CHARACTERISTIC	MIN	MAX	UNITS	TEST CONDITIONS
V_F	Forward Voltage	0.83	1.0	V	$I_F = 200$ mA
		0.79	0.92	V	$I_F = 100$ mA
		0.75	0.88	V	$I_F = 50$ mA
		0.65	0.80	V	$I_F = 10$ mA
		0.60	0.75	V	$I_F = 5.0$ mA
		0.52	0.68	V	$I_F = 1.0$ mA
I_R	Reverse Current		1.0	nA	$V_R = 125$ V
			300	nA	$V_R = 30$ V, $T_A = 125$ °C
			500	nA	$V_R = 125$ V, $T_A = 125$ °C
			3.0	μ A	$V_R = 125$ V, $T_A = 150$ °C
B_V	Breakdown Voltage	150		V	$I_R = 100$ μ A
T_{RR}	Reverse Recovery Time		3.0	μ s	$I_F = 10$ mA, $V_R = 3.5$ V $R_L = 1.0$ k Ω
C	Capacitance		8.0	pF	$V_R = 0$, $f = 1.0$ MHz



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