

T-03-09

GENERAL PURPOSE DIODES

1N659
1N660
1N661

ABSOLUTE MAXIMUM RATINGS

- V_F 1.0 V @ 6.0 mA
- T_{RR} 300 ns

Temperatures

Storage Temperature Range	-65 °C to +200 °C
Maximum Junction Operating Temperature	+175 °C
Lead Temperature	+260 °C

Power Dissipation

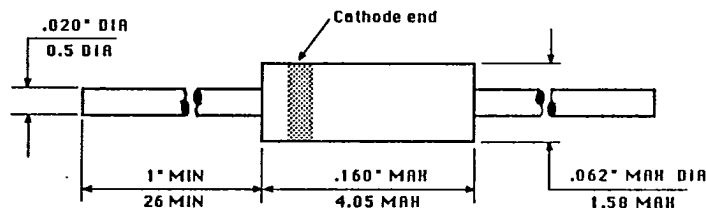
Maximum Total Power Dissipation at 25 °C Ambient	500 mW
Linear Power Derating Factor (from 25 °C)	3.33 mW/ °C

Maximum Voltage and Currents

	1N659	1N660	1N661
V_{IV} Working Inverse Voltage	50V	100V	200V
I_O Average Rectified Current	200 mA	200 mA	200 mA
I_F Forward Current Steady State	500 mA	500 mA	500 mA
I_F (surge) Peak Forward Surge Current			
Pulse Width = 1.0 μ s	4.0 A	4.0 A	4.0 A
Pulse Width = 1.0 s	1.0 A	1.0 A	1.0 A

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

SYMBOL	CHARACTERISTIC	MIN	MAX	UNITS	TEST CONDITIONS
V_F	Forward Voltage	1N659, 1N660, 1N661	1.0	V	$I_F = 6.0$ mA
I_R	Reverse Current	1N659	5.0	μ A	$V_R = 50$ V
			25	μ A	$V_R = 50$ V, $T_A = 100$ °C
		1N660	5.0	μ A	$V_R = 100$ V
			50	μ A	$V_R = 100$ V, $T_A = 100$ °C
		1N661	10	μ A	$V_R = 200$ V
			100	μ A	$V_R = 200$ V, $T_A = 100$ °C
B_V	Breakdown Voltage	1N659	60	V	$I_R = 100$ μ A
		1N660	120	V	$I_R = 100$ μ A
		1N661	240	V	$I_R = 100$ μ A
T_{RR}	Reverse Recovery Time	1N659, 1N660, 1N661	300	ns	$I_F = 30$ mA, $V_R = 35$ V, $R_L = 2.0$ k Ω , $C_L = 10$ pF Recovery to 400 k Ω



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