T-01-09

LOW LEAKAGE DIODES

1N456 • 1N456A • 1N457 • 1N457A
1N458 • 1N458A • 1N459 • 1N459A

ABSOLUTE MAXIMUM RATINGS

- I_R 25 nA @ WIV
- C 6.0 pF

Temperatures

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

Power Dissipation

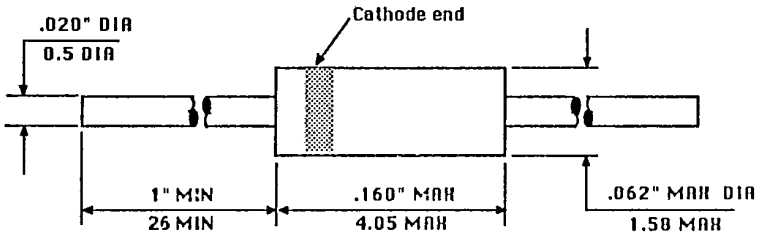
Maximum Total Power Dissipation at 25 °C Ambient	500mW
Linear Power Derating Factor	3.33 mW/ °C

Maximum Voltage and Currents

		1N456/A	1N457/A	1N458/A	1N459/A
WIV	Working Inverse Voltage	25V	60V	125V	175V
IO	Average Rectified Current				200mA
I_F	Continuous Forward Current				500mA
i_F	Peak Repetitive Forward Current				600mA
i_F (surge)	Peak Forward Surge Current				
	Pulse Width = 1μs				4.0 A
	Pulse Width = 1s				1.0A

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

SYMBOL	CHARACTERISTIC		MIN	MAX	UNITS	TEST CONDITIONS
V_F	Forward Voltage	1N456A/7A/8A/9A		1.0	V	I_F = 100 mA
		1N456		1.0	V	I_F = 40 mA
		1N457		1.0	V	I_F = 20 mA
		1N458		1.0	V	I_F = 7 mA
		1N459		1.0	V	I_F = 3 mA
I_R	Reverse Current			25	nA	V_R = Rated WIV
				5.0	μA	V_R = Rated WIV, T_A = 150 °C
B_V	Breakdown Voltage	1N456/A	30		V	I_R = 100μA
		1N457/A	70		V	I_R = 100μA
		1N458/A	150		V	I_R = 100μA
		1N459/A	200		V	I_R = 100μA
C	Capacitance			6.0	pF	V_R = 0, f = 1 MHz



DO-35 PACKAGE

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