



ELECTRONICS, INC.
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1N456A thru 1N459A Small Signal Diode

Features:

- DO-35 Package

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$, Note 1 unless otherwise specified)

Max. Repetitive Reverse Voltage, V_{RRM}

1N456A	30V
1N457A	70V
1N458A	150V
1N459A	200V

Power Dissipation, P_D 500mW

Average Rectified Forward Current, $I_{F(AV)}$ 500mA

None-Repertitive Forward Surge Current, I_{FSM}

Pulse Width = 10.0 seconds	1.0A
Pulse Width = 1.0 microsecond	4.0A

Operating Junction Temperature, T_J 175°C

Storage Temperature Range, T_{stg} -65° to +200°C

Thermal Resistance, Junction to Ambient, R_{thJA} 300°C/W

Note 1. These ratings are limiting values above which the serviceability of the device may be impaired.

Note 2. These ratings are based on a maximum junction temperature of +200°C.

Note 3. These are steady state limits.

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	$I_R = 5\mu\text{A}$	30	-	-	V
			70	-	-	V
		$I_R = 100\mu\text{A}$	150	-	-	V
			200	-	-	V
Forward Voltage	V_F	$I_F = 100\text{mA}$	-	-	1.0	V
Reverse Leakage	I_R	$V_R = 25\text{V}$	-	-	25	μA
		$V_R = 125\text{V}, T_A = 150^\circ\text{C}$	-	-	5	μA

