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1N4446 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}	100V
Power Dissipation, P_D	500mW
Average Rectified Forward Current, $I_{F(AV)}$	200mA
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

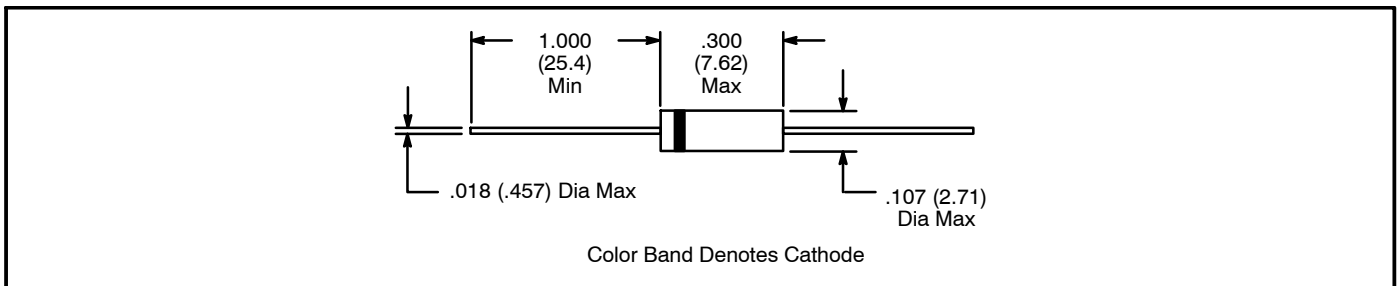
Note 1. These ratings are limiting values above which the serviceability of the device may be impaired.

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	$I_R = 100\mu\text{A}$	100	-	-	V
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	-	1.0	V
Reverse Current	I_R	$V_R = 20\text{V}$	-	-	25	nA
		$V_R = 20\text{V}, T_A = +150^\circ\text{C}$	-	-	50	μA
Total Capacitance	C_T	$V_R = 0, f = 1\text{MHz}$	-	-	4	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{mA}, V_R = 6\text{V}, I_{rr} = 1\text{mA}, R_L = 100\Omega$	-	-	4	nS



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