THE DATASHEET OF

1N4446

ELECTRONICS, INC.
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1N4446
Small Signal Diode

Features:

- DO–35 Package

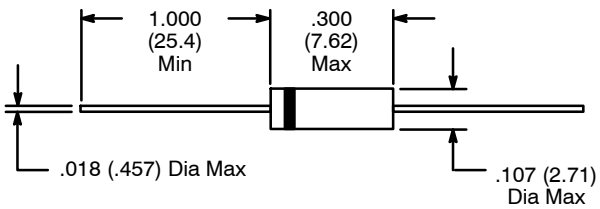
Absolute Maximum Ratings: (T_A = +25°C, Note 1 unless otherwise specified)

Max. Repetitive Reverse Voltage, V_{RRM} 100V
Power Dissipation, P_D 500mW
Average Rectified Forward Current, $I_{F(AV)}$ 200mA
None–Repetitive 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°C, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	I_R = 100μA	100	–	–	V
Forward Voltage	V_F	I_F = 20mA	–	–	1.0	V
Reverse Current	I_R	V_R = 20V	–	–	25	nA
		V_R = 20V, T_A = +150°C	–	–	50	μA
Total Capacitance	C_T	V_R = 0, f = 1MHz	–	–	4	pF
Reverse Recovery Time	t_{rr}	I_F = 10mA, V_R = 6V, I_{rr} = 1mA, R_L = 100Ω	–	–	4	nS



Color Band Denotes Cathode

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