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1N3070



DO-35 COLOR BAND DENOTES CATHODE

Small Signal Diode

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	200	V
F(AV)	Average Rectified Forward Current	500	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current		
	Pulse Width = 1.0 second	1.0	Α
	Pulse Width = 1.0 microsecond	4.0	Α
STG	Storage Temperature Range	-65 to +200	°C
J	Operating Junction Temperature	175	°C

^{*} These ratings are limiting values above which the serviceability of the diode may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V _R	Breakdown Voltage	I _R = 100μA	200		V
V _F	Forward Voltage	I _F = 100mA		1.0	V
I _R	Reverse Leakage	V _R = 175V		100	nA
		$V_R = 175V, T_A = 150^{\circ}C$		100	μΑ
C _T	Total Capacitance	$V_R = 0V$, $f = 1.0MHz$		5	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 30 \text{mA}, RL = 100 \Omega$		50	ns

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NOTES:

1) These ratings are based on a maximum junction temperature of 200 degrees C.

2) These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

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