

December 2004

1N3064 Small Signal Diode



DO-35 Color Band Denotes Cathode

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

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum Repetitive Reverse Voltage	75	V	
I _{F(AV)}	Average Rectified Forward Current	300	mA	
I _{FSM}	Non-repetitive Peak Forward Surge CurrentPulse Width = 1.0 secondPulse Width = 1.0 microsecond4.0		A A	
T _{STG}	Storage Temperature Range	-65 to +200	°C	
TJ	Operating Junction Temperature	175	°C	

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

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.

Thermal Characteristics

Symbol	Parameter	Value	Unit
P _D	Power Dissipation	500	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics T_C = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max	Units
V _R	Breakdown Voltage	I _R = 5μA	75		V
V _F	Forward Voltage	$I_{F} = 250\mu A$ $I_{F} = 1mA$ $I_{F} = 2mA$ $I_{F} = 10mA$	505 550 610	575 650 710 1.0	mV mV mV V
I _R	Reverse Leakage	V _R = 50V V _R = 50V, T _A = 150°C		100 100	nA μA
C _T	Total Capacitance	V _R = 0, f = 1.0MHz		2	pF
t _{rr}	Reverse Recovery Time	$I_{F} = I_{R} = 10$ mA, $R_{L} = 100\Omega$, $I_{rr} = 1$ mA		4	ns

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