

1N458A



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	150	V	
I _{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	
T _{STG}	Storage Temperature Range	-65 to +200	°C	
 Г _Ј	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/W	

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V_R	Breakdown Voltage	I _R = 100μA	150		V
V _F	Forward Voltage	I _F = 100mA		1.0	V
I _R	Reverse Leakage	V _R = 125V		25	nA
		$V_R = 125V, T_A = 150^{\circ}C$		5	μΑ

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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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