

December 2004

1N456A

Small Signal Diode



DO-35 Color Band Denotes Cathode

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

WWW.DZSC.C

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V	
I _{F(AV)}	Average Rectified Forward Current	500	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 4.0	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:

Thermal Characteristics

Symbol	Parameter	Value	Unit	
P _D	Power Dissipation	500	mW	
$R_{\theta JA}$	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	Ι _R = 5μΑ	30		V
V _F	Forward Voltage	I _F = 100mA		1.0	V
I _R	Reverse Leakage	V _R = 25V V _R = 25V, T _A = 150°C		25 50	nA μA



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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