

1N456A

Small Signal Diode



DO-35

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

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
T _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	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	$I_R = 5\mu A$	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

 $[\]begin{tabular}{ll} \textbf{NOTES:}\\ \textbf{1)} \ These \ ratings \ are \ based \ on \ a \ maximum \ junction \ temperature \ of \ 200 \ degrees \ C. \end{tabular}$

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

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