

1N486B



DO-35 Color Band Denotes Cathode

Small Signal Diode

Absolute Maximum Ratings*

 $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Value	lue Units	
V_{RRM}	Maximum Repetitive Reverse Voltage	250	V	
I _{F(AV)}	Average Rectified Forward Current	200	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	

 $^{{}^{\}bigstar} \text{These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.}$

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	$I_R = 100 \mu A$	250		V
V _F	Forward Voltage	I _F = 100 mA		1.0	V
I _R	Reverse Current	V _R = 225 V		50	nA
		$V_R = 225 \text{ V}, T_A = 150^{\circ}\text{C}$		10	μΑ

¹⁾ These ratings are based on a maximum junction temperature of 200 degrees C.
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

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