

SEMICONDUCTOR®

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
F(AV)	Average Rectified Forward Current	500	mA
FSM	Non-repetitive Peak Forward Surge Current		
	Pulse Width = 1.0 second	1.0	А
	Pulse Width = 1.0 microsecond	4.0	A
Г _{STG}	Storage Temperature Range	-65 to +200	°C
Гј	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	Units
PD	Power Dissipation	500	mW
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics TA=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	μΑ
		$V_{R} = 125V, T_{A} = 150^{\circ}C$		5	μΑ

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Definition of Terms

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