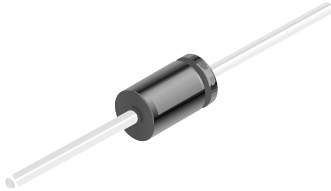




1N3595



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	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
T _J	Operating Junction Temperature	175	°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

- NOTES:
- 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.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
R _{θJA}	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 μA	150		V
V _F	Forward Voltage	I _F = 1.0 mA I _F = 5.0 mA I _F = 10 mA I _F = 50 mA I _F = 100 mA I _F = 200 mA	0.52 0.60 0.65 0.75 0.79 0.83	0.68 0.75 0.80 0.88 0.92 1.00	V V V V V V
I _R	Reverse Current	V _R = 125 V V _R = 30 V, T _A = 125°C V _R = 125 V, T _A = 125°C V _R = 125 V, T _A = 150°C		1 0.3 0.5 3	nA μA μA μA
C _T	Total Capacitance	V _R = 0, f = 1.0 MHz		8	pF
t _{rr}	Reverse Recovery Time	I _F = 10 mA, V _R = 3.5 V, R _L = 1.0 kΩ		3	μs

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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