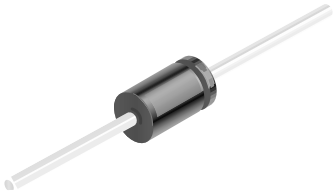
FAIRCHILD
SEMICONDUCTOR®

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
$R_{\theta JA}$	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 µA	150		V
V_F	Forward Voltage	I_F = 1.0 mA	0.52	0.68	V
		I_F = 5.0 mA	0.60	0.75	V
		I_F = 10 mA	0.65	0.80	V
		I_F = 50 mA	0.75	0.88	V
		I_F = 100 mA	0.79	0.92	V
		I_F = 200 mA	0.83	1.00	V
I_R	Reverse Current	V_R = 125 V		1	nA
		V_R = 30 V, T_A = 125°C		0.3	µA
		V_R = 125 V, T_A = 125°C		0.5	µA
		V_R = 125 V, T_A = 150°C		3	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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