SEMICONDUCTOR 1N3595 DO-35 Color Band Denotes Cathode **Small Signal Diode Absolute Maximum Ratings*** T_A = 25°C unless otherwise noted Symbol Parameter M. Value Units V_{RRM} Maximum Repetitive Reverse Voltage 150 V

I _{F(AV)}	Average Rectified Forward Current	26 °	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current			
	Pulse Width = 1.0 second	C. C.	1.0	A
	Pulse Width = 1.0 microsecond		4.0	A
T _{stg}	Storage Temperature Range		-65 to +200	°C
TJ	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

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Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	I _R = 100 μA	150		V
V _F	Forward Voltage	$I_F = 1.0 \text{ mA}$ $I_F = 5.0 \text{ mA}$ $I_F = 10 \text{ mA}$ $I_F = 50 \text{ mA}$ $I_F = 100 \text{ mA}$ $I_F = 100 \text{ mA}$	0.52 0.60 0.65 0.75 0.79	0.68 0.75 0.80 0.88 0.92	
I _R	Reverse Current	$I_{F} = 200 \text{ mA}$ $V_{R} = 125 \text{ V}$ $V_{R} = 30 \text{ V}, 125^{\circ}\text{C}$ $V_{R} = 125 \text{ V}, 125^{\circ}\text{C}$ $V_{R} = 125 \text{ V}, 150^{\circ}\text{C}$	0.83	1.00 1 0.3 0.5 3	V nA μA μA μA
CT	Total Capacitance	$V_{R} = 0, f = 1.0 \text{ MHz}$		8	pF
t _{rr}	Reverse Recovery Time	$I_F = 10 \text{ mA}, V_R = -3.5 \text{ V},$ $R_L = 1.0 \text{ k}\Omega$		3	μs

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