	CHILD NDUCTOR®		
	1N3595		
Small	DO-35 Color Band Denotes Cathode		
Absolut	Color Band Denotes Cathode Signal Diode e Maximum Ratings* T _A = 25°C unless otherwise noted		
	Color Band Denotes Cathode	Value	Units
Absolut	Color Band Denotes Cathode Signal Diode e Maximum Ratings* T _A = 25°C unless otherwise noted	Value 150	Units V
Absolut Symbol	Color Band Denotes Cathode Signal Diode e Maximum Ratings* T _A = 25°C unless otherwise noted Parameter		
Absolut Symbol V _{RRM}	Color Band Denotes Cathode Signal Diode e Maximum Ratings* T _A = 25°C unless otherwise noted Parameter Maximum Repetitive Reverse Voltage	150	V
Absolut Symbol V _{RRM} I _{F(AV)}	Color Band Denotes Cathode Signal Diode e Maximum Ratings* T _A = 25°C unless otherwise noted Parameter Maximum Repetitive Reverse Voltage Average Rectified Forward Current Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	150 200 1.0	V mA A

*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
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics	T ₄ = 25°C unless otherwise noted
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Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	I _R = 100 μA	150		V
V _F	Forward Voltage	$I_{F} = 1.0 \text{ mA}$ $I_{F} = 5.0 \text{ mA}$ $I_{F} = 10 \text{ mA}$ $I_{F} = 50 \text{ mA}$ $I_{F} = 100 \text{ mA}$ $I_{F} = 200 \text{ mA}$	0.52 0.60 0.65 0.75 0.79 0.83	0.68 0.75 0.80 0.88 0.92 1.00	
I _R	Reverse Current	$V_{R} = 125 V$ $V_{R} = 30 V, T_{A} = 125^{\circ}C$ $V_{R} = 125 V, T_{A} = 125^{\circ}C$ $V_{R} = 125 V, T_{A} = 125^{\circ}C$ $V_{R} = 125 V, T_{A} = 150^{\circ}C$	0.83	1 0.3 0.5 3	ν 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 ₁ = 1.0 kΩ		3	μs

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