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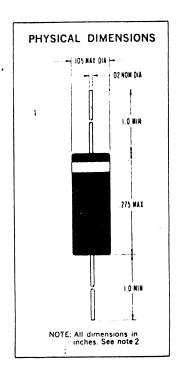
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The 1N3595 is a high conductance extremely low leakage planar diode. Specified maximum values for voltage drop capacitance and leakage current mean flexibility in designing circuits which require large numbers of diodes. In those applications where reverse current is a critical design parameter, the inherent qualities of the Fairchild process eliminates the problem of leakage degradation.

The USN 1N3595 is supplied in accordance with MIL-S-19500/241A (NAVY). The electrical specifications, as listed in Table III, are identical with those listed in this Military Specification.

MAXIMUM RATINGS (25°C) (Note 1)

WIV	Working Inverse Voltage	125 V
lo	Average rectified current	150 mA
l, .	Forward current steady state d.c.	225 mA
i,	Recurrent peak forward current	450 mA
i, (surge)	Peak forward surge current pulse width of 1 second	500 mA
i ₍ (surge)	Peak forward surge current pulse width of 1 μ Sec.	4000 mA
Ρ ΄	Power dissipation	500 mW
1/0	Power derating factor	4 mW/°C
T _A	Operating temperature	-65°C to +150°C
Tita	Storage temperature, ambient	-65°C to +175°C



ELECTRICAL SPECIFICATIONS (25°C unless otherwise noted)

Symbol	Characteristic	Min.	Max.	Units		Test Conditions
V _F	Forward Voltage	.83	1.00	Vdc		I, = 200 mA
V _F	Forward Voltage	.79	.92	Vdc		$I_F = 100 \text{ mA}$
V _F	Forward Voltage	.74	.88	Vdc	1	$I_i = 50 \text{ mA}$
V _F	Forward Voltage	.65	.80	Vdc		$I_r = 10 \text{ mA}$
V _F	Forward Voltage	.60	.75	Vdc		$I_r = 5 \text{ mA}$
V _F	Forward Voltage	.52	.68	Vdc		$I_r = 1 \text{ mA}$
l _R .	Reverse Current		1.0	nA		$V_{R} = 125 V$
la,	Reverse Current (125°C)		300	nA		$V_R = 30 V$
I _R ,	Reverse Current (125°C)		500	nΑ		$V_{R} = 125 \text{ V}$
	Reverse Current (150°C)		3.0	μA		$V_{R} = 125 \text{ V}$
t _{rr}	Reverse Recovery Time		3.0	Sec,		See Table III
Č"	Capacitance [Note 3]		8.0	pf		$V_R = 0 V$
BV	Breakdown Voltage	150	-	Vdc		$I_R = 100 \mu A$

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