

# SILICON MULTIPLIER VARACTOR DIODE

## DESCRIPTION:

The **1N4396** is a High Power Silicon Multiplier Varactor Diode.

## MAXIMUM RATINGS

$I_F$	200 mA
$V_R$	250 V
$P_{DISS}$	20 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+150^\circ C$
$T_{STG}$	$-65^\circ C$ to $+175^\circ C$
$\theta_{JC}$	5.0 $^\circ C/W$

**PACKAGE STYLE DO-4**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A		0.405		10.28
b		0.250		6.35
c				
$\phi D$		0.505		12.82
$\phi D_1$	0.265	0.424	6.74	10.76
E	0.423	0.438	10.75	11.12
$F_1$	0.075	0.175	1.91	4.44
J	0.600	0.800	15.24	20.32
$\phi M$	0.163	0.189	4.15	4.80
N	0.422	0.453	10.72	11.50
$N_1$		0.078		1.98
S				
$\phi T$	0.060	0.095	1.53	2.41
$\phi W$	10-32	UNF-2A	10-32	UNF-2A

1 = Anode  
2 = Cathode

## CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10 \mu A$	250			V
$C_T$	$V_R = 6.0 V$ $f = 1.0 MHz$	20		50	pF
$R_S$	$V_R = 6.0 V$ $f = 50 MHz$		0.7		Ohms
$P_{OUT(X3)}$	$P_{IN} = 30 W$ $F_{IN} = 150 MHz$	15			W