

# SILICON MULTIPLIER VARACTOR DIODE

**DESCRIPTION:**

The **1N4388** is a High Power Silicon Multiplier Varactor Diode.

**MAXIMUM RATINGS**

$I_F$	200 mA
$V_R$	100 V
$P_{DISS}$	10 W @ $T_C = 25^\circ\text{C}$
$T_J$	$-65^\circ\text{C}$ to $+150^\circ\text{C}$
$T_{STG}$	$-65^\circ\text{C}$ to $+175^\circ\text{C}$
$\theta_{JC}$	$10^\circ\text{C/W}$

**PACKAGE STYLE DO-4**

1 = Anode  
2 = Cathode

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

**CHARACTERISTICS**  $T_C = 25^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10 \mu\text{A}$	100			V
$C_T$	$V_R = 6.0 \text{ V}$		$f = 1.0 \text{ MHz}$	20	pF
Q	$V_R = 6.0 \text{ V}$		$f = 50 \text{ MHz}$	800	---
$f_{in}$				500	MHz
$P_{out(X3)}$	$P_{IN} = 30 \text{ W}$	$F_{IN} = 150 \text{ MHz}$	15	20	W