



## SILICON MULTIPLIER VARACTORS

### Description

These silicon multiplier varactors (from 0.2 to 25 GHz) are designed for harmonic generation of high power levels (stack configuration) and/or at high multiplication orders.

### Packaged diodes

Characteristics at 25°C		Varactor chips per package	Output freq. $F_0$	Breakdown voltage $V_{br}$		Junction capacitance $C_j$		Min. car. lifetime $\tau_i$	Snap-Off time $t_{so}$	Thermal resistance $R_{th}$	Power output $P_o$	
Test Conditions			N/A	$I_R = 10 \mu A$		$V_R = 6 V$ $f = 1 MHz$		$I_F = 10 mA$ $I_R = 6 mA$	$I_F = 10 mA$ $V_R = 10 V$	N/A	$f_o = (n)f_i$	
Type	Case		GHz	V		pF		ns	ps	°C/W	W	(n)
			min.	max	min.	max	min.	max	max	typ.		
DH294	M208b	1	0.2 - 2	45	70	4.0	7.0	125	400	300	0.5	2
DH200	BH142b	1	0.5 - 2	90	140	5.5	7.0	250	1000	8	20.0	2
DH270	S268-W1	1	2 - 3	80	110	4.0	5.5	160	700	10	15.0	2
DH110	F27d	1	2 - 4	60	90	3.0	4.0	100	400	25	9.0	2
DH293	F60d	1	3 - 6	50	70	2.0	3.0	60	250	30	6.0	2
DH252	F27d	1	2 - 8	40	60	0.9	2.0	35	200	50	3.0	2
DH256	F27d	1	5 - 12	30	45	0.5	1.1	20	120	60	2.0	2
DH292	F27d	1	8 - 16	20	35	0.2	0.5	10	75	70	0.6	2
DH267	F27d	1	10 - 25	15	25	0.2	0.3	6	60	100	0.2	2

### Temperature ranges:

Operating junction ( $T_j$ ) : -55° C to +150° C

Storage : -65° C to +175° C