

1N3488-1N3566

TYPE	MATERIAL	REPLACEMENT	PAGE NUMBER	IDENTIFICATION	RECTIFIERS					ZENER DIODES					
					V_R (volts)	V_F (volts)	I_O (Amps)	I_R (mA)	I_{surge} (Amps)	V_Z (min)	V_Z (nom) *	T_{ol} V_Z %	P_D		
					SIGNAL DIODES					REFERENCE DIODES					
					V_{PRV} (volts)	V_F @ I_F (volts)	I_R	t_{rr} (μ s)	TC %/°C	V_Z	T (min) °C	T (max) °C			
1N3488 1N3489 thru 1N3490 1N3491 1N3492 1N3493 1N3494 1N3495	S S S S S S S S S	Varactor Diode, See table on page 1-86 4-Layer Diodes, See table on page 1-96		R R R R R	50 100 200 300 400	1.7 1.7 1.7 1.7 1.7	18 18 18 18 18	1.0 1.0 1.0 1.0 1.0	300 300 300 300 300						
1N3496 1N3497 1N3498	S S S	1N829 1N827 1N825	2-45 2-45 2-45	RD RD RD						0.005 0.002 0.001	6.5 6.5 6.5	0 0 0	75 75 75		
1N3499 1N3500 1N3501 1N3502 1N3503 1N3504 1N3506 1N3507 1N3508 1N3509 1N3510 1N3511	S S S S S S S S S S S S	1N823 1N821 M2640 M2620 M2610 M2605 1N5226B 1N5227B 1N5228B 1N5229B 1N5230B 1N5231B	2-45 2-45 2-52 2-52 2-52 2-52 2-32 2-32 2-32 2-32 2-32 2-32	RD RD RD RD RD RD ZD ZD ZD ZD ZD ZD						0.0005 0.01	6.5 6.5 6.5 6.5 6.5 6.5 3.3* 3.6* 3.9* 4.3* 4.7* 5.1*	0 0 25 25 25 25 5.0 5.0 5.0 5.0 5.0 5.0	75 75 100 100 100 100 400M 400M 400M 400M 400M 400M		
1N3512 1N3513 1N3514 1N3515 1N3516 1N3517 1N3518 1N3519 1N3520 1N3521 1N3522 1N3523	S S S S S S S S S S S S	1N5232B 1N5234B 1N5235B 1N5236B 1N5237B 1N5239B 1N5240B 1N5241B 1N5242B 1N5243B 1N5245B 1N5246B	2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32	ZD ZD ZD ZD ZD ZD ZD ZD ZD ZD ZD ZD							5.6* 6.2* 6.8* 7.5* 8.2* 9.1* 10* 11* 12* 13* 15* 16*	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	400M 400M 400M 400M 400M 400M 400M 400M 400M 400M 400M 400M		
1N3524 1N3525 1N3526 1N3527 1N3528 1N3529 1N3530 1N3531 1N3532 1N3533 1N3534 1N3535 1N3536	S S S S S S S S S S S S S	1N5248B 1N5250B 1N5251B 1N5252B 1N5254B 1N5256B 1N5257B 1N5258B 1N5259B 1N5260B 1N5261B	2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32 2-32	ZD ZD ZD ZD ZD ZD ZD ZD ZD ZD ZD							18* 20* 22* 24* 27* 30* 33* 36* 39* 43* 47*	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	400M 400M 400M 400M 400M 400M 400M 400M 400M 400M 400M		
1N3537 1N3538 1N3539 1N3539A 1N3540 1N3540A 1N3541 1N3541A 1N3542 1N3542A 1N3543 1N3543A 1N3544	S S S S S S S S S S S S S	1N4741A† Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode Backward Diode 1N4002	2-29 3-24	ZD GP GP GP GP GP GP GP GP GP GP GP R	150 100	0.549 0.65 1.5	100M 1.0M 0.6	25N 0.2	15 15		12*		1.0W		
1N3545 1N3546 1N3547 1N3548 1N3549 1N3550 1N3551 thru 1N3552 1N3553 1N3554 thru	S S S S S S S S S S S S	1N4003 1N4004 1N4004 1N4005 1N4005 Varactor Diodes, See table on page 1-86 1N821 Varactor Diodes, See table on page 1-86	3-24 3-24 3-24 3-24 3-24 2-45 	R R R R R RD 	200 300 400 500 600 180	1.5 1.5 1.5 1.5 1.5 1.0	0.6 0.6 0.6 0.6 0.6 50M	0.2 0.2 0.2 0.2 0.2 1.5	15 15 15 15 15 100		0.0001	6.3	-55	100	
1N3557 1N3558 1N3559 1N3560 thru 1N3562 1N3563 1N3564 1N3565 1N3566	S G S G S S	Matched Pair of 1N751A's, Zener Diode Tunnel Diodes, See table on page 1-92		GP R GP HC R	24 1000 15 6.0 800	1.0 1.2 1.0 2.0 2.25	200M 0.4 40M 2.0A 1.0	20* 0.2 40 25M 0.5							

R—Rectifier, RD—Reference Diode, ZD—Zener Diode, GP—General Purpose, HC—High Conductance (≥ 20 mA @ ≤ 1 V), HS—High Speed Switch (Max $t_r < 0.3 \mu$ s), CS—High Conductance, High Speed Switch, MS—Medium Speed Switch, PA—Parametric Amplifier, SP—Special Purpose.

*Original device is a clipper, requires a pair of units for adequate replacement.

VARACTOR DIODES INDEX

1N950-1N4793D

TYPE	PAGE NUMBER	CAPACITANCE						BV _R Volts	Q @ f GHz		Max R _s Ohms	P _D @ 25°C Watts	MULTIPLIER PERFORMANCE				
		C _J C _T pF	C Tol %	C (max) C (min)	Voltage Range		P _{in} Watts						f _{in} GHz	Min P _{out} Watts	f _{out} GHz	Min η %	
					V ₁ Volts	V ₂ Volts											
1N950		35		2.51	4.0	130	130	7.0	0.05								
1N951		50		2.4	4.0	80	80	7.0	0.05	4.5							
1N952		70		2.43	4.0	60	60	7.0	0.05	2.1							
1N953		100		2.4	4.0	25	25	7.0	0.05	1.5							
1N954		35		2.51	4.0	25	25	7.0	0.05								
1N955		50		2.4	4.0	25	25	7.0	0.05	5.0							
1N956		70		2.43	4.0	25	25	7.0	0.05	2.1							
1N2627		2.75		1.75	0	5.0	5.0	10	1.0								
1N2628		2.5		1.5	0	5.0	5.0	14	1.0								
1N3182		33					20	65	0.05	3.0	0.163						
1N3488		56					15	7.0	0.05								
1N3551		50	6.0	1.38	4.0	8.0	11	30	0.05								
1N3552		21.5	6.0				22	25	0.05								
1N3554		12					100										
1N3555		20					100	60	0.05								
1N3556		47					100	50	0.10								
1N3557		24					210	75	0.05								
1N3627		21.3		2.45	4.0	20	20	25	0.05								
1N3628		50		2.5	4.0	20	20	30	0.05								
1N3770		2.0					5.5										
1N3945		20		1.5	4.0	20	20	7.0	0.05		0.50						
1N3946		71					9.0	7.0	0.05		0.50						
1N3947		70					9.0	9.0	0.05								
1N4091		4.2		2.5			6.0				0.30						
1N4386	12-5	50					250	75	0.05	1.5	25	50	0.05	32.5	0.15		
1N4387	12-7	35					150	150	0.05	1.5	20	30	0.15	15	0.45		
1N4388	12-8	20					100	200	0.05	2.0	10	20	0.5	11	1.0		
1N4598		22		4.04	4.0	90	90	50	0.05		0.25						
1N4599		47		5.0	2.0	100	110	100	0.05	100	0.50						
1N4609		22		2.64	4.0	35	35	60	0.05		0.25						
1N4786		6.8	20	2.56	0	4.0	25	15	0.05		0.50						
1N4786A		6.8	10	2.56	0	4.0	25	15	0.05		0.50						
1N4786B		6.8	5.0	2.56	0	4.0	25	15	0.05		0.50						
1N4786C		6.8	2.0	2.56	0	4.0	25	15	0.05		0.50						
1N4786D		6.8	1.0	2.56	0	4.0	25	15	0.05		0.50						
1N4787		8.2	20	2.56	0	4.0	25	15	0.05		0.50						
1N4787A		8.2	10	2.56	0	4.0	25	15	0.05		0.50						
1N4787B		8.2	5.0	2.56	0	4.0	25	15	0.05		0.50						
1N4787C		8.2	2.0	2.56	0	4.0	25	15	0.05		0.50						
1N4787D		8.2	1.0	2.56	0	4.0	25	15	0.05		0.50						
1N4788		10	20	2.50	0	4.0	25	15	0.05		0.50						
1N4788A		10	10	2.50	0	4.0	25	15	0.05		0.50						
1N4788B		10	5.0	2.50	0	4.0	25	15	0.05		0.50						
1N4788C		10	2.0	2.50	0	4.0	25	15	0.05		0.50						
1N4788D		10	1.0	2.50	0	4.0	25	15	0.05		0.50						
1N4789		12	20	2.49	0	4.0	25	15	0.05		0.50						
1N4789A		12	10	2.49	0	4.0	25	15	0.05		0.50						
1N4789B		12	5.0	2.49	0	4.0	25	15	0.05		0.50						
1N4789C		12	2.0	2.49	0	4.0	25	15	0.05		0.50						
1N4789D		12	1.0	2.49	0	4.0	25	15	0.05		0.50						
1N4790		15	20	2.49	0	4.0	25	15	0.05		0.50						
1N4790A		15	10	2.49	0	4.0	25	15	0.05		0.50						
1N4790B		15	5.0	2.49	0	4.0	25	15	0.05		0.50						
1N4790C		15	2.0	2.49	0	4.0	25	15	0.05		0.50						
1N4790D		15	1.0	2.49	0	4.0	25	15	0.05		0.50						
1N4791		18	20	2.48	0	4.0	20	15	0.05		0.50						
1N4791A		18	10	2.48	0	4.0	20	15	0.05		0.50						
1N4791B		18	5.0	2.48	0	4.0	20	15	0.05		0.50						
1N4791C		18	2.0	2.48	0	4.0	20	15	0.05		0.50						
1N4791D		18	1.0	2.48	0	4.0	20	15	0.05		0.50						
1N4792		22	20	2.46	0	4.0	20	15	0.05		0.50						
1N4792A		22	10	2.46	0	4.0	20	15	0.05		0.50						
1N4792B		22	5.0	2.46	0	4.0	20	15	0.05		0.50						
1N4792C		22	2.0	2.46	0	4.0	20	15	0.05		0.50						
1N4792D		22	1.0	2.46	0	4.0	20	15	0.05		0.50						
1N4793		27	20	2.46	0	4.0	20	15	0.05		0.50						
1N4793A		27	10	2.46	0	4.0	20	15	0.05		0.50						
1N4793B		27	5.0	2.46	0	4.0	20	15	0.05		0.50						
1N4793C		27	2.0	2.46	0	4.0	20	15	0.05		0.50						
1N4793D		27	1.0	2.46	0	4.0	20	15	0.05		0.50						