

TYPE	MATERIAL	REPLACEMENT	PAGE NUMBER	IDENTIFICATION	RECTIFIERS					ZENER DIODES			
					V <sub>R</sub> (volts)	V <sub>F</sub> (volts)	I <sub>O</sub> (Amps)	I <sub>R</sub> (mA)	I <sub>surge</sub> (Amps)	V <sub>Z</sub> (min)	V <sub>Z</sub> (nom) *	Tol V <sub>Z</sub> %	P <sub>D</sub>
					SIGNAL DIODES					REFERENCE DIODES			
					PRV (volts)	V <sub>F</sub> @ I <sub>F</sub> (volts)	I <sub>F</sub>	t <sub>r</sub> (μs)	TC %/°C	V <sub>Z</sub>	T (min) °C	T (max) °C	
1N1591	S		2-14	ZD						6.8*	10	3.5W	
1N1591A	S		2-14	ZD						6.8*	5.0	3.5W	
1N1592	S		2-14	ZD						8.2*	10	3.5W	
1N1592A	S		2-14	ZD						8.2*	5.0	3.5W	
1N1593	S		2-14	ZD						10*	10	3.5W	
1N1593A	S		2-14	ZD						10*	5.0	3.5W	
1N1594	S		2-14	ZD						12*	10	3.5W	
1N1594A	S		2-14	ZD						12*	5.0	3.5W	
1N1595	S		2-14	ZD						15*	10	3.5W	
1N1595A	S		2-14	ZD						15*	5.0	3.5W	
1N1596	S		2-14	ZD						18*	10	3.5W	
1N1596A	S		2-14	ZD						18*	5.0	3.5W	
1N1597	S		2-14	ZD						22*	10	3.5W	
1N1597A	S		2-14	ZD						22*	5.0	3.5W	
1N1598	S		2-14	ZD						27*	10	3.5W	
1N1598A	S		2-14	ZD						27*	5.0	3.5W	
1N1599	S		2-14	ZD						3.9*	10	10W	
1N1599A	S		2-14	ZD						3.9*	5.0	10W	
1N1600	S		2-14	ZD						4.7*	10	10W	
1N1600A	S		2-14	ZD						4.7*	5.0	10W	
1N1601	S		2-14	ZD						5.6*	10	10W	
1N1601A	S		2-14	ZD						5.6*	5.0	10W	
1N1602	S		2-14	ZD						6.8*	10	10W	
1N1602A	S		2-14	ZD						6.8*	5.0	10W	
1N1603	S		2-14	ZD						8.2*	10	10W	
1N1603A	S		2-14	ZD						8.2*	5.0	10W	
1N1604	S		2-14	ZD						10*	10	10W	
1N1604A	S		2-14	ZD						10*	5.0	10W	
1N1605	S		2-14	ZD						12*	10	10W	
1N1605A	S		2-14	ZD						12*	5.0	10W	
1N1606	S		2-14	ZD						15*	10	10W	
1N1606A	S		2-14	ZD						15*	5.0	10W	
1N1607	S		2-14	ZD						18*	10	10W	
1N1607A	S		2-14	ZD						18*	5.0	10W	
1N1608	S		2-14	ZD						22*	10	10W	
1N1608A	S		2-14	ZD						22*	5.0	10W	
1N1609	S	1N2988A	2-14	ZD						27*	10	10W	
1N1609A	S	1N2988B	2-14	ZD						27*	5.0	10W	
1N1610	S	Microwave S-X-band Detector											
1N1611	S	Microwave C-X-band Detector											
1N1611A	S	Microwave C-X-band Detector											
1N1611B	S	Microwave C-X-band Detector											
1N1612	S	MR1120	3-39	R	50	1.5	5.0	1.0					
1N1613	S	MR1121	3-39	R	100	1.5	5.0	1.0					
1N1614	S	MR1122	3-39	R	200	1.5	5.0	1.0					
1N1615	S	MR1124	3-39	R	400	1.5	5.0	1.0					
1N1616	S	MR1126	3-39	R	600	1.5	5.0	1.0					
1N1617	S	1N4002	3-24	R	100	1.2	1.5	60					
1N1618	S	1N4003	3-24	R	200	1.2	1.5	60					
1N1619	S	1N4004	3-24	R	300	1.2	1.5	60					
1N1620	S	1N4004	3-24	R	400	1.2	1.5	60					
1N1621	S			R	100	1.2	10	80					
1N1622	S			R	200	1.2	10	80					
1N1623	S			R	300	1.2	10	80					
1N1624	S			R	400	1.2	10	80					
1N1625	Se			R	48	1.0		0.015	0.005				
1N1625A	Se			R	48	1.0		0.015	0.01				
1N1626	Se			R	96	2.0		0.015	0.005				
1N1626A	Se			R	96	2.0		0.015	0.01				
1N1627	Se			R	48	1.0		0.027	0.08				
1N1628	Se			R	96	2.0		0.027	0.08				
1N1629	Se			R	144	3.0		0.027	0.08				
1N1630	Se			R	192	4.0		0.027	0.08				
1N1631	Se			R	240	5.0		0.027	0.08				
1N1632	Se			R	288	6.0		0.027	0.08				
1N1633	Se			R	336	7.0		0.027	0.08				
1N1634	Se			R	384	8.0		0.027	0.08				
1N1635	Se			R	48	1.0		0.108	0.25				
1N1636	Se			R	96	2.0		0.108	0.25				
1N1637	Se			R	144	3.0		0.108	0.25				
1N1638	Se			R	192	4.0		0.108	0.25				
1N1639	Se			R	240	5.0		0.108	0.25				
1N1640	Se			R	48	1.0	0.028	0.240	0.55				
1N1641	Se			R	96	2.0	0.028	0.240	0.55				
1N1642	Se			R	144	3.0	0.028	0.240	0.55				
1N1644	S			R	50	0.5	0.25	0.4	15				
1N1645	S			R	100	0.5	0.25	0.4	15				
1N1646	S			R	150	0.5	0.25	0.3	15				
1N1647	S			R	200	0.5	0.25	0.3	15				
1N1648	S			R	250	0.5	0.25	0.3	15				
1N1649	S			R	300	0.5	0.25	0.3	15				
1N1650	S			R	350	0.5	0.25	0.3	15				

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

**1N1507 thru 1N1517**

**$\frac{3}{4}$  W**  
**3.9 — 27 V**



**CASE 52**

Recommended for applications requiring an exact replacement only. For new designs and for industry preferred replacement devices, see 1.0-watt, 1N3016, 1N3821 and 1N4728 series.

**1N1518 thru 1N1528**

**1 W**  
**3.9 — 27 V**



**CASE 52**

Recommended for applications requiring an exact replacement only. For new designs and for industry preferred replacement devices, see 1N3016, 1N3821 and 1N4728 series.

**1N1588 thru 1N1598**

**3.5 W**  
**3.9 — 27 V**



**CASE 56**  
**(DO-4)**

Recommended for applications requiring an exact replacement only. For new designs and for industry preferred replacement devices, see 1N2970 and 1N3993 series.

**1N1599 thru 1N1609**

**10 W**  
**3.9 — 27 V**

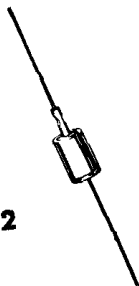


**CASE 56**  
**(DO-4)**

Recommended for applications requiring an exact replacement only. For new designs and for industry preferred replacement devices, see 1N2970 and 1N3993 series.

**1N1765 thru 1N1802**

**1 W**  
**5.6 — 200 V**



**CASE 52**

Recommended for applications requiring an exact replacement only. For new designs and for industry preferred replacement devices, see 1N3016 and 1N4728 series.