

1N1517A-1N1590A

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) *	Tol	P_D
					SIGNAL DIODES					REFERENCE DIODES			
					PRV (volts)	V_F @ I_F (volts)	I_R	t_r (μ s)	TC %/°C	V_Z	T (min) °C	T (max) °C	
1N1517A	S		2-14	ZD							27*	5.0	750M
1N1518	S		2-14	ZD							3.9*	10	1.0W
1N1518A	S		2-14	ZD							3.9*	5.0	1.0W
1N1519	S		2-14	ZD							4.7*	10	1.0W
1N1519A	S		2-14	ZD							4.7*	5.0	1.0W
1N1520	S		2-14	ZD							5.6*	10	1.0W
1N1520A	S		2-14	ZD							5.6*	5.0	1.0W
1N1521	S		2-14	ZD							6.8*	10	1.0W
1N1521A	S		2-14	ZD							6.8*	5.0	1.0W
1N1522	S		2-14	ZD							8.2*	10	1.0W
1N1522A	S		2-14	ZD							8.2*	5.0	1.0W
1N1523	S		2-14	ZD							10*	10	1.0W
1N1523A	S		2-14	ZD							10*	5.0	1.0W
1N1524	S		2-14	ZD							12*	10	1.0W
1N1524A	S		2-14	ZD							12*	5.0	1.0W
1N1525	S		2-14	ZD							15*	10	1.0W
1N1525A	S		2-14	ZD							15*	5.0	1.0W
1N1526	S		2-14	ZD							18*	10	1.0W
1N1526A	S		2-14	ZD							18*	5.0	1.0W
1N1527	S		2-14	ZD							22*	10	1.0W
1N1527A	S		2-14	ZD							22*	5.0	1.0W
1N1528	S		2-14	ZD							27*	10	1.0W
1N1528A	S		2-14	ZD							27*	5.0	1.0W
1N1530	S		2-45	RD							8.4	-55	100
1N1530A	S		2-45	RD							8.4	-55	100
1N1537	S			R	50	1.5	1.6	0.05					
1N1538	S	1N4002	3-24	R	100	1.5	1.6	0.05					
1N1539	S	1N4003	3-24	R	150	1.5	1.6	0.05					
1N1540	S	1N4003	3-24	R	200	1.5	1.6	0.05					
1N1541	S	1N4004	3-24	R	300	1.5	1.6	0.05					
1N1542	S	1N4004	3-24	R	400	1.5	1.6	0.05					
1N1543	S	1N4005	3-24	R	500	1.5	1.6	0.05					
1N1544	S	1N4005	3-24	R	600	1.5	1.6	0.05					
1N1551	S			R	100	1.4		1.0					
1N1552	S			R	200	1.4		1.0					
1N1553	S			R	300	1.4		1.0					
1N1554	S			R	400	1.4		1.0					
1N1555	S			R	500	1.4		1.0					
1N1556	S			R	100	1.4		1.0					
1N1557	S			R	200	1.4		1.0					
1N1558	S			R	300	1.4		1.0					
1N1559	S			R	400	1.4		1.0					
1N1560	S			R	500	1.4		1.0					
1N1561	G			HC	25	0.4	12M	25*					
1N1562	G			HC	25	0.4	8.0M	25*					
1N1563	S			R	100	1.5	1.0	0.003	70				
1N1563A	S			R	100	1.5	1.5	0.003	70				
1N1564	S			R	200	1.5	1.0	0.003	70				
1N1564A	S			R	200	1.5	1.5	0.003	70				
1N1565	S			R	300	1.5	1.0	0.003	70				
1N1565A	S			R	300	1.5	1.5	0.003	70				
1N1566	S			R	400	1.5	1.0	0.003	70				
1N1566A	S			R	400	1.5	1.5	0.003	70				
1N1567	S			R	500	1.2	1.0	0.005	70				
1N1567A	S			R	500	1.5	1.5	0.003	70				
1N1568	S			R	600	1.2	1.0	0.005	70				
1N1568A	S			R	600	1.5	1.5	0.003	70				
1N1569	S			R	100	1.5	1.0	0.005	70				
1N1570	S			R	200	1.5	1.0	0.005	70				
1N1571	S			R	300	1.5	1.0	0.005	70				
1N1572	S			R	400	1.5	1.0	0.005	70				
1N1573	S			R	500	1.5	1.0	0.005	70				
1N1574	S			R	600	1.5	1.0	0.005	70				
1N1575	S			R	100	1.5	3.5	0.005	70				
1N1576	S			R	200	1.5	3.5	0.005	70				
1N1577	S			R	300	1.5	3.5	0.005	70				
1N1578	S			R	400	1.5	3.5	0.005	70				
1N1579	S			R	500	1.5	3.5	0.005	70				
1N1580	S			R	600	1.5	3.5	0.005	70				
1N1581	S	MR1120	3-39	R	50	1.5	3.0	5.0	40				
1N1582	S	MR1121	3-39	R	100	1.5	3.0	5.0	40				
1N1583	S	MR1122	3-39	R	200	1.5	3.0	5.0	40				
1N1584	S	MR1123	3-39	R	300	1.5	3.0	5.0	40				
1N1585	S	MR1124	3-39	R	400	1.5	3.0	5.0	40				
1N1586	S	MR1125	3-39	R	500	1.5	3.0	5.0	40				
1N1587	S	MR1126	3-39	R	600	1.5	3.0	5.0	40				
1N1588	S		2-14	ZD							3.9*	10	3.5W
1N1588A	S		2-14	ZD							3.9*	5.0	3.5W
1N1589	S		2-14	ZD							4.7*	10	3.5W
1N1589A	S		2-14	ZD							4.7*	5.0	3.5W
1N1590	S		2-14	ZD							5.6*	10	3.5W
1N1590A	S		2-14	ZD							5.6*	5.0	3.5W

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

1N1563, A thru 1N1568, A

V_R — to 600 V
 $I_O = 1.5$ A



CASE 55

Low-current silicon rectifiers in hermetically sealed, low-silhouette single-ended package designed to operate under military environmental conditions. Cathode connected to case, but reverse polarity devices are available on special order.

MAXIMUM RATINGS (At 60 cps Sinusoidal Input, Resistive or Inductive Load)

Rating	Symbol	1N1563A 1N1563	1N1564A 1N1564	1N1565A 1N1565	1N1566A 1N1566	1N1567A 1N1567	1N1568A 1N1568	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	$V_{RM(rep)}$ V_R	100	200	300	400	500	600	Volts
RMS Reverse Voltage	V_r	70	140	210	280	350	420	Volts
Average Half-Wave Rectified Forward Current (55°C Ambient) (150°C Ambient)	I_O	1500 300	1500 300	1500 300	1500 300	1500 300	1500 300	mA mA
Peak Surge Current (1/2 Cycle Surge, 60 Hz)	$I_{FM(surge)}$	70	70	70	70	70	70	Amp
Peak Repetitive Forward Current	$I_{FM(rep)}$	10	10	10	10	10	10	Amp
Operating and Storage Temperature Range	T_J T_{stg}	-65 to +175						°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	1N1563A - 1N1568A Rating	1N1563 - 1N1568 Rating	Unit
Maximum Forward Voltage Drop @ 500 mA, (25°C) Continuous DC (150°C)	V_F	1.2 0.9	1.2 1.0	Volts
Maximum Reverse Current @ Rated DC Voltage (25°C)	I_R	1.5		μ A
Maximum Full-Cycle Average Reverse Current (25°C) @ Max Rated PIV and Current (as Half-Wave (150°C) Rectifier, Resistive Load	$I_{R(AV)}$	3.0 150	5.0 500	μ A

