

# Diodes and Rectifiers

	Type No.	Case	Drawing No.	(Amps.) Av. Rect. Current 50°C Amb	Avalanche Voltage		(Volts) (P.I.V.)	(Amps.) Single Cycle Surge	A Max. 1R at P.I.V. at 25°C	SPECIAL FEATURES
					Min.	Max.				
Avalanche Rectifiers	1AS027	SO16	CC	1.5	1000	1500	800	125	1.0	Reverse Power 4 kW for 10 µsec
	1AS029	SO16	CC	1.5	1250	1750	1000	125	1.0	
	Type No.	Case	Drawing No.	Average Rectified Forward Current Amps./°C Case		(Volts) P.I.V. and Vbo	(mA) Max. Gate Current to Fire	(mA) Holding Current	SPECIAL FEATURES	
Silicon Controlled Rectifiers	2N1595	TO5/SO3	TO5	1	80	50	10	25	I <sub>R</sub> and I <sub>F</sub> = 1.0mA max. at 125°C at rated P.I.V.	
	2N1596	TO5/SO3	TO5	1	80	100	10	25		
	2N1597	TO5/SO3	TO5	1	80	200	10	25		
	2N1598	TO5/SO3	TO5	1	80	300	10	25		
	2N1599	TO5/SO3	TO5	1	80	400	10	25		
	TI145A0	TO5/SO3	TO5	0.75	60	50	50	50		I <sub>R</sub> and I <sub>F</sub> = 1.0mA max. at 100°C at rated P.I.V.
	TI145A1	TO5/SO3	TO5	0.75	60	100	50	50		
	TI145A2	TO5/SO3	TO5	0.75	60	200	50	50		
	TI145A3	TO5/SO3	TO5	0.75	60	300	50	50		
	TI145A4	TO5/SO3	TO5	0.75	60	400	50	50		
	2N1600	SO35	EE	3	80	50	10	25		
	2N1601	SO35	EE	3	80	100	10	25		
	2N1602	SO35	EE	3	80	200	10	25		
	2N1603	SO35	EE	3	80	300	10	25		
	2N1604	SO35	EE	3	80	400	10	25		
	TI40A0	SO35	EE	3	60	50	50	50	I <sub>R</sub> and I <sub>F</sub> = 1.0mA max. at 100°C at rated P.I.V.	
	TI40A1	SO35	EE	3	60	100	50	50		
	TI40A2	SO35	EE	3	60	200	50	50		
	TI40A3	SO35	EE	3	60	300	50	50		
	TI40A4	SO35	EE	3	60	400	50	50		
	2N1770	SO35	EE	4-7	60	25	15	10 Typ.		I <sub>R</sub> and I <sub>F</sub> = 4.5mA max. at 125°C at rated P.I.V.
	2N1771	SO35	EE	4-7	60	50	15	10 Typ.		
	2N1772	SO35	EE	4-7	60	100	15	10 Typ.		
	2N1773	SO35	EE	4-7	60	150	15	10 Typ.		
	2N1774	SO35	EE	4-7	60	200	15	10 Typ.		
	2N1775	SO35	EE	4-7	60	250	15	10 Typ.	I <sub>R</sub> and I <sub>F</sub> = 2.5mA max. at 125°C at P.I.V.	
	2N1776	SO35	EE	4-7	60	300	15	10 Typ.		
	2N1777	SO35	EE	4-7	60	400	15	10 Typ.		
	2N1843B		FF	16	70	50	75	20 Typ.		I <sub>R</sub> and I <sub>F</sub> = 1.0mA max. at 125°C at rated P.I.V.
	2N1844B		FF	16	70	100	75	20 Typ.		
	2N1846B		FF	16	70	200	75	20 Typ.		
	2N1848B		FF	16	70	300	75	20 Typ.		
	2N1849B		FF	16	70	400	75	20 Typ.		
2N1850B		FF	16	70	500	75	20 Typ.			
2N3001	TO18	TO18	0.35	55°C Amb.	30	0.02	3.0	All Planar, Oxide Passivated Very low leakage Fast switching times		
2N3002	TO18	TO18	0.35	55°C Amb.	60	0.02	3.0			
2N3003	TO18	TO18	0.35	55°C Amb.	100	0.02	3.0			
2N3004	TO18	TO18	0.35	55°C Amb.	200	0.02	3.0			
2N3005	TO18	TO18	0.35	55°C Amb.	30	0.2	5.0			
2N3006	TO18	TO18	0.35	55°C Amb.	60	0.2	5.0			
2N3007	TO18	TO18	0.35	55°C Amb.	100	0.2	5.0			
2N3008	TO18	TO18	0.35	55°C Amb.	200	0.2	5.0			
2N3555	TO5	TO5	1.0	100	30	0.02	3.0			
2N3556	TO5	TO5	1.0	100	60	0.02	3.0			
2N3557	TO5	TO5	1.0	100	100	0.02	3.0			
2N3558	TO5	TO5	1.0	100	200	0.02	3.0			
2N3559	TO5	TO5	1.0	100	30	0.2	5.0			
2N3560	TO5	TO5	1.0	100	60	0.2	5.0			
2N3561	TO5	TO5	1.0	100	100	0.2	5.0			
2N3562	TO5	TO5	1.0	100	200	0.2	5.0			
TIC44	Silect	Silect	0.6	55	30	0.2	5	In addition the 2N3005-2N3008 series have gate turn-off capability		
TIC45	Silect	Silect	0.6	55	60	0.2	5			
TIC46	Silect	Silect	0.6	55	100	0.2	5			
TIC47	Silect	Silect	0.6	55	200	0.2	5			