

Part Number	Applications	Absolute Maximum Ratings										
		V _{CB0}	V _{CEO}	I _C	P _C	I _{CB0}		h _{FE}				
		(V)	(V)	(A)	(W)	(μA)	Conditions	min	max	V _{CE} (V)	I _C (A)	
							V _{CB} (V)					
2SD1785	Solenoid/relay/motor driver/series regulator, general-purpose	120	120	6 (Pulse 10)	30	10	120	2000		2	3	
2SD1796	Solenoid/relay/motor driver, general-purpose	60±10	60±10	4	25	10	50	2000		4	3	
2SD2014	Solenoid/relay/motor driver/series regulator, general-purpose	120	80	4	25	10	120	2000		2	3	
2SD2015	Solenoid/relay/motor driver, general-purpose	150	120	4	25	10	150	2000		2	2	
2SD2016	Igniter, relay, general-purpose	200	200	3	25	10	200	1000	15000	4	1	
2SD2017	Solenoid/relay/motor driver, general-purpose	300	250	6	35	100	300	2000		2	2	
2SD2045	Solenoid/motor driver, general-purpose	120	120	6 (Pulse 10)	50	10	120	2000		2	3	
2SD2081	Solenoid/motor driver, general-purpose	120	120	10 (Pulse 15)	30	10	120	2000		4	5	
2SD2082	Solenoid/motor driver, general-purpose	120	120	16 (Pulse 26)	75	10	120	2000		4	8	
2SD2083	Solenoid/motor driver, general-purpose	120	120	25 (Pulse 40)	120	10	120	2000		4	12	
2SD2141	Igniter, solenoid, motor driver, general-purpose	380±50	380±50	6 (Pulse 10)	35	10	330	1500		2	3	
2SD2389	Audio, series regulator, general-purpose	160	150	8	80	100	160	5000	30000	4	6	
2SD2390	Audio, series regulator, general-purpose	160	150	10	100	100	160	5000	30000	4	7	
2SD2401	Audio, series regulator, general-purpose	160	150	12	150	100	160	5000	30000	4	7	
2SD2438	Audio, series regulator, general-purpose	160	150	8	75	100	160	5000	30000	4	6	
2SD2439	Audio, series regulator, general-purpose	160	150	10	80	100	160	5000	30000	4	7	
2SD2560	Audio, series regulator, general-purpose	150	150	15	130	100	150	5000	30000	4	10	
2SD2561	Audio, series regulator, general-purpose	150	150	17	200	100	150	5000	30000	4	10	
2SD2562	Audio, series regulator, general-purpose	150	150	15	85	100	150	5000	30000	4	10	
2SD2641	Series regulator, general-purpose	110	110	6	60	100	110	5000	30000	4	5	
2SD2642	Series regulator, general-purpose	110	110	6	30	100	110	5000	30000	4	5	
2SD2643	Series regulator, general-purpose	110	110	6	60	100	110	5000	30000	4	5	
STD01N	Audio	150	150	10	100	100	150	5000	20000	4	6	
STD01P	Audio	-150	-150	-10	100	-100	-150	5000	20000	-4	-6	
STD03N	Audio	160	160	15	160	100	160	5000	20000	4	10	
STD03P	Audio	-160	-160	-15	160	-100	-160	5000	20000	-4	-10	

Electrical Characteristics												Complementary	Package	Mass
	VCE (sat)	VBE (sat)	Conditions		fT	Switching Time			Cob	(g)				
						ton	tstg	tr						
	(V)	(V)	IC	IB	MHz	VCE	IE	(μS)	(μS)		(μS)			(pF)
max	max	(A)	(A)		(V)	(A)								
	1.5		2	3mA	100	12	−0.1	0.5typ	5.5typ	1.5typ	70	2SB1258	TO-220F (FM20)	2.0
	1.5		3	10mA	60	12	−0.2	1typ	4typ	1.5typ	45		TO-220F (FM20)	2.0
	1.5	2.0	3	3mA	75	12	−0.1	1typ	4typ	1.5typ	45	2SB1257	TO-220F (FM20)	2.0
	1.5	2.0	2	2mA	40	12	−0.1	0.6typ	5typ	2typ	40		TO-220F (FM20)	2.0
	1.5	2.0	1	1.5mA	90	12	−0.1				40		TO-220F (FM20)	2.0
	1.5	2.0	2	2mA	20	12	−1	0.6typ	16typ	3typ	65		TO-220F (FM20)	2.0
	1.5	2.0	3	3mA	50	12	−1	0.5typ	5.5typ	1.5typ	70		TO-3PF (FM100)	6.5
	1.5	2.0	5	5mA	60	12	−0.5				95	2SB1259	TO-220F (FM20)	2.0
	1.5	2.5	8	16mA	20	12	−1	0.6typ	7typ	1.5typ	210	2SB1382	TO-3PF (FM100)	6.5
	1.8	2.5	12	24mA	20	12	−1	1typ	6typ	1typ	340	2SB1383	TO-3P (MT-100)	6.0
	1.5		4	20mA	20	12	−0.5				95		TO-220F (FM20)	2.0
	2.5	3.0	6	6mA	80	12	−1	0.6typ	10typ	0.9typ	85	2SB1559	TO-3P (MT-100)	6.0
	2.5	3.0	7	7mA	55	12	−2	0.5typ	10typ	1.1typ	95	2SB1560	TO-3P (MT-100)	6.0
	2.5	3.0	7	7mA	55	12	−2	0.5typ	10typ	1.1typ	95	2SB1570	MT-200	18.4
	2.5	3.0	6	6mA	80	12	−1	0.6typ	10typ	0.9typ	85	2SB1587	TO-3PF (FM100)	6.5
	2.5	3.0	7	7mA	55	12	−2	0.5typ	10typ	1.1typ	95	2SB1588	TO-3PF (FM100)	6.5
	2.5	3.0	10	10mA	70	12	−2	0.8typ	4typ	1.2typ	120	2SB1647	TO-3P (MT-100)	6.0
	2.5	3.0	10	10mA	70	12	−2	0.8typ	4typ	1.2typ	120	2SB1648	MT-200	18.4
	2.5	3.0	10	10mA	70	12	−2	0.8typ	4typ	1.2typ	120	2SB1649	TO-3PF (FM100)	6.5
	2.5	3.0	5	5mA	60	12	−2	0.8typ	6.2typ	1.1typ	55		TO-3P (MT-100)	6.0
	2.5	3.0	5	5mA	60	12	−0.5	0.8typ	6.2typ	1.1typ	55		TO-220F (FM20)	2.0
	2.5	3.0	5	5mA	60	12	−0.5	0.8typ	6.2typ	1.1typ	55		TO-3PF (FM100)	6.5
	2.0	2.5	6	6mA								STD01P	TO3P-5Pin	6.2
	−2.0	−2.5	−6	−6mA								STD01N	TO3P-5Pin	6.2
	2.0	2.5	10	10mA								STD03P	TO-3P-5pin	6.2
	−2.0	−2.5	−10	−10mA								STD03N	TO-3P-5pin	6.2