

TRANSISTOR NUMBER	P M O A L T	PACK-AGE	LEAD INFO	V _{CB} MAX	V _{CE} MAX	V _{EB} MAX	I _C MAX	T _J MAX	P TOT	F _T MIN	C _{OB} MAX	f _{RE}	f _{BE} BIAS	USE	MFR	ALTERNATIVES AND NOTES
2SC2180	N S	X28	X28	35V	18V	3V	6A	175C	40WC	-	80P	10mn	1A	VHP	TOS	-
2SC2181	N S	X57F	M01	35V	18V	3V	10A	175C	70WC	150M	160P	10mn	2A	VHP	TOS	-
2SC2182	N S	X28	X28	65V	35V	4V	6A	175C	60WC	75M	100P	10mn	1A	VHP	TOS	-
2SC2183	N S	X28	X28	35V	18V	4V	4500mA	175C	30WC	200M	50P	10mn	1500mA	AHG	TOS	-
2SC2184	N S	TO20	L32	60V	-	4V	3A	150C	10WC	100M	30P	100tp	100mA	RHP	FUJ	-
2SC2185	N S	X64	X64	50V	-	3V	6A	200C	75WC	-	-	60tp	2A	UHP	NEC	-
2SC2186	N S	X64	X64	50V	-	3V	9A	200C	110WC	-	-	60tp	3A	UHP	NEC	-
2SC2188	N S	X19	L78	45V	35V	4V	50mA	135C	600mWF	250M	1P5	20/100	10mA	TIA	MAT	-
2SC2189	N S	TO3	L05	150V	-	7V	10A	150C	80WC	-	-	40mn	4A	AHH	FUJ	-
2SC2190	N S	TO3	L05	450V	-	7V	5A	150C	100WC	-	-	15mn	2A	AHE	FUJ	-
2SC2191	N S	TO3	L05	450V	-	7V	10A	150C	100WC	-	-	15mn	4A	AHE	FUJ	-
2SC2192	N S	SPEC	-	36V	-	4V	5A	150C	30WC	300M	35P	50tp	400mA	VHP	MAT	-
2SC2193	N S	TO39	L04	150V	-	5V	300mA	175C	600mWF	75M	4P0	70tp	150V	ALH	-	-
2SC2194	N S	X17	L35	60V	-	5V	1500mA	150C	1WF	50M	20P	120tp	150mA	AMP	TOS	-
2SC2194A	N S	TO202	L35	60V	50V	5V	1500mA	150C	1500mWF	50M	20P	70/240	150mA	AMP	TOS	-
2SC2196	N S	TO39	L04	40V	18V	3V	2A	175C	7WC	400M	10P	50tp	1A	VHG	FUJ	-
2SC2197	N S	X76C	M01	50V	25V	3V	8A	175C	60WC	250M	100P	50tp	3A	VHP	SAK	-
2SC2198	N S	TO66	L43	100V	50V	20V	6A	150C	40WC	-	-	300mn	1A	AHG	SAK	-
2SC2199	N S	TO3	L05	150V	80V	15V	8A	150C	60WC	6M	100P	300/2K	1A	AHD	SAK	-
2SC2200	N S	TO66	L43	500V	400V	6V	7A	150C	40WC	-	-	10mn	3A	AHE	TOS	-
2SC2204	N S	X87	L05	800V	400V	5V	30A	150C	250WC	-	-	10mn	30A	RHE	TOS	-
2SC2206	N S	X19	L78	30V	20V	5V	30mA	135C	400mWF	150M	1P3	50mn	1mA	ALN	TOS	-
2SC2207	N S	TO220	L32	-	80V	-	8A	150C	-	-	-	-	-	RHP	HIT	-
2SC2208	N S	TO39	L04	120V	120V	7V	5A	175C	800mWF	-	-	1Kmn	5A	AHD	HIT	-
2SC2208H	N S	TO39	L04	-	150V	-	10A	200C	80WC	-	-	1Kmn	5A	AHD	HIT	-
2SC2209	N S	TO126	L70	50V	40V	5V	1500mA	150C	10WC	75M	50P	30/220	1A	AHG	MAT	-
2SC2210	N S	TO92	L21	30V	20V	5V	30mA	125C	250mWF	50M	4P5	40/320	1mA	AVG	SAN	BF219
2SC2210C	N S	TO92	L21	30V	20V	5V	30mA	125C	250mWF	50M	4P5	40/80	1mA	AVG	SAN	-
2SC2210D	N S	TO92	L21	30V	20V	5V	30mA	125C	250mWF	50M	4P5	60/120	1mA	AVG	SAN	-
2SC2210E	N S	TO92	L21	30V	20V	5V	30mA	125C	250mWF	50M	4P5	100/200	1mA	AVG	SAN	-
2SC2210F	N S	TO92	L21	30V	20V	5V	30mA	125C	250mWF	50M	4P5	160/320	1mA	AVG	SAN	-
2SC2212	N S	TO92	L14	15V	15V	3V	20mA	100C	250mWF	700M	1P0	30/170	3mA	FVG	SOY	2N3663
2SC2213	N S	TO92	L14	30V	15V	4V	50mA	100C	250mWF	700M	1P3	40/150	5mA	TUO	SOY	2N3663
2SC2214	N S	TO5	L04	100V	80V	6V	4A	175C	10WC	70M	60P	54/264	100mA	RHH	SOY	B5545
2SC2215	N S	TO92	L16	40V	40V	4V	50mA	125C	250mWF	200M	1R2	30mn	4mA	TIG	-	2N5152
2SC2216	N S	TO92	L16	50V	45V	4V	50mA	125C	300mWF	150M	2P0	20/100	12mA	TIG	TOS	-
2SC2217	N S	X806	L75	20V	-	1V	80mA	200C	580mWF	8Gtp	1P0	30/300	20mA	ULA	NEC	-
2SC2218	N S	X39	L75	20V	-	1V	80mA	200C	350mWF	8Gtp	1P0	30/300	20mA	ULA	NEC	-
2SC2219	N S	X83B	-	20V	-	1V	80mA	200C	700mWF	8Gtp	1P0	30/300	20mA	ULA	NEC	-
2SC2220	N S	X87	L05	500V	300V	5V	30A	150C	250WC	-	-	10mn	30A	RHE	TOS	-
2SC2221	N S	TO39	L04	25V	12V	2V	750mA	-	750mWC	-	10P	20/200	200mA	VMG	NEC	-
2SC2222	N S	X56D	L75	25V	12V	2V	1500mA	-	17WC	-	18P	20/200	400mA	VHP	NEC	-
2SC2223	N S	X12	L29	30V	-	4V	20mA	-	150mWC	300M	1P0	90tp	1mA	AVG	NEC	-
2SC2224	N S	X17	L35	200V	-	5V	200mA	-	10WC	50M	2P0	180tp	10mA	TVM	NEC	-
2SC2228	N S	TO92	L21	160V	160V	5V	50mA	150C	900mWF	50M	4P0	40/320	10mA	TVM	SAN	BF299
2SC2228A	N S	TO92	L21	200V	200V	5V	50mA	150C	900mWF	50M	4P0	40/320	10mA	TVM	SAN	-
2SC2228B	N S	TO92	L21	160V	160V	5V	50mA	150C	900mWF	50M	4P0	40/320	10mA	TVM	SAN	-
2SC2229	N S	TO92	L21	200V	150V	5V	50mA	150C	800mWF	60M	5P0	70/240	10mA	TVM	TOS	-
2SC2229-O	N S	TO92	L21	200V	150V	5V	50mA	150C	800mWF	60M	5P0	70/140	10mA	TVM	TOS	-
2SC2229-Y	N S	TO92	L21	200V	150V	5V	50mA	150C	800mWF	60M	5P0	120/240	10mA	TVM	TOS	-
2SC2230	N S	TO92	L21	200V	160V	5V	100mA	150C	800mWF	50M	7P0	120/400	10mA	TVM	TOS	-
2SC2230-G	N S	TO92	L21	200V	160V	5V	100mA	150C	800mWF	50M	7P0	120/240	10mA	TVM	TOS	-
2SC2230-Y	N S	TO92	L21	200V	180V	5V	100mA	150C	800mWF	50M	7P0	200/400	10mA	TVM	TOS	-
2SC2230A	N S	TO92	L21	200V	180V	5V	100mA	150C	800mWF	50M	7P0	120/400	10mA	ALH	TOS	-
2SC2230A-G	N S	TO92	L21	200V	180V	5V	100mA	150C	800mWF	50M	7P0	120/240	10mA	ALH	TOS	-
2SC2230A-Y	N S	TO92	L21	200V	180V	5V	100mA	150C	800mWF	50M	7P0	200/400	10mA	ALH	TOS	-
2SC2231	N S	TO202	L32	200V	160V	5V	200mA	150C	1500mWC	50M	10P	100mn	50mA	TVM	TOS	-
2SC2231A	N S	TO202	L32	200V	180V	5V	200mA	150C	12mWC	50M	10P	100/320	50mA	TVM	TOS	-
2SC2233	N S	TO220	L32	200V	60V	5V	4A	150C	40WC	4M	80P	30/150	1A	THM	TOS	-
2SC2234	N S	X28	X28	35V	18V	3V	10A	150C	70WC	150M	160P	10mn	5A	VHP	TOS	-
2SC2235	N S	TO92	L21	120V	120V	5V	800mA	150C	900mWF	60M	30P	80/240	100mA	AMH	TOS	-
2SC2235-O	N S	TO92	L21	120V	120V	5V	800mA	150C	900mWF	60M	30P	80/160	100mA	AMH	TOS	-
2SC2235-Y	N S	TO92	L21	120V	120V	5V	800mA	150C	900mWF	60M	30P	120/240	100mA	AMH	TOS	-
2SC2236	N S	TO92	L21	30V	30V	5V	1500mA	150C	900mWF	80M	30P	100/320	500mA	PHP	TOS	-
2SC2236-O	N S	TO92	L21	30V	30V	5V	1500mA	150C	900mWF	80M	30P	100/200	500mA	PHP	TOS	-
2SC2236-Y	N S	TO92	L21	30V	30V	5V	1500mA	150C	900mWF	60M	30P	160/320	500mA	PHP	TOS	-
2SC2237	N S	SPEC	-	35V	17V	4V	2A	175C	20WC	-	-	10/180	100mA	RHP	MIT	-
2SC2238	N S	TO220	L32	160V	160V	5V	1500mA	150C	25WC	50M	25P	70/240	100mA	AHH	TOS	-
2SC2238A	N S	TO220	L32	180V	180V	5V	1500mA	150C	25WC	100Mtp	25P	70/240	100mA	AHH	TOS	-
2SC2238B	N S	TO220	L32	200V	200V	5V	1500mA	150C	25WC	100Mtp	25P	70/240	100mA	AHH	TOS	-
2SC2239	N S	TO66	L43	160V	160V	5V	1500mA	150C	25WC	50M	25P	70/240	100mA	AHH	TOS	-
2SC2240	N S	TO92	L21	120V	120V	5V	100mA	125C	300mWF	50M	3P0	200/700	2mA	ALN	TOS	-
2SC2240-GR	N S	TO92	L21	120V	120V	5V	100mA	125C	300mWF	50M	3P0	200/400	2mA	ALN	TOS	-
2SC2240-BL	N S	TO92	L21	120V	120V	5V	100mA	125C	300mWF	50M	3P0	350/700	2mA	ALN	TOS	-
2SC2241	N S	TO220	L32	300V	300V	7V	150mA	150C	20WC	50M	3P8	40/170	50mA	TVE	TOS	-