

TRANSISTOR NUMBER	P M O A L T	PACK- AGE	LEAD INFO	V _{CE} MAX	V _{CE} MAX	V _{CE} MAX	I _C MAX	T _J MAX	P TOT	F- MIN	C _{OB} MAX	H _{FE}	H _{FE} BIAS	USE	MFR	ALTERNATIVES AND NOTES
2S3230	P S	TO1	L02	25V	25V	10V	150mA	200C	300mWF	250K	-	25/85	10mA	ALA	TIS	-
2S3240	P S	TO1	L02	15V	15V	10V	150mA	200C	300mWF	400K	-	40mn	10mA	ALA	TIS	-
2SA12	P G	TO1	L02	16V	-	1V	15mA	75C	80mWF	3M	12P	70tp	1mA	RLG	HIT	OC44N 2N2614
2SA12H	P G	TO1	L02	16V	-	12V	15mA	75C	80mWF	4M	12P	60tp	1mA	RLG	HIT	OC44N 2N2614
2SA13	P G	TO1	L02	12V	-	-	15mA	85C	80mWF	3M	13P	55tp	1mA	RLG	OBS	OC44N 2N2614
2SA14	P G	TO1	L02	16V	-	-	15mA	85C	80mWF	3M	-	30mn	1mA	RLA	HIT	OC44N 2N2614
2SA15	P G	TO1	L02	16V	-	1V	15mA	75C	80mWF	5M	12P	60tp	1mA	RLG	HIT	OC44N 2N2614
2SA15H	P G	TO1	L02	16V	13V	13V	15mA	75C	80mWF	4M	12P	70tp	1mA	RLG	HIT	OC44N 2N2614
2SA16	P G	TO1	L02	12V	-	1V	10mA	85C	80mWF	5M	13P	60tp	1mA	RLG	OBS	OC44N 2N2614
2SA17	P G	TO1	L02	12V	-	-	150mA	60C	80mWF	8M	15P	250tp	1mA	RMG	OBS	ASY27 2N1305
2SA17H	P G	TO1	L02	16V	10V	12V	15mA	75C	80mWF	9M	12P	120tp	1mA	RLG	HIT	OC44N 2N2614
2SA18	P G	TO1	L02	21V	12V	12V	150mA	85C	80mWF	6M	15P	150tp	1mA	RMG	OBS	ASY27 2N1305
2SA18H	P G	TO1	L02	21V	12V	16V	15mA	75C	80mWF	9M	12P	140tp	1mA	RLG	HIT	OC44N 2N2614
2SA19	P G	TO1	L02	12V	-	1V	2mA	75C	15mWF	20M	3P0	20tp	1mA	RLG	OBS	AF124 2N990
2SA20	P G	TO1	L02	12V	-	1V	2mA	75C	15mWF	25M	3P0	30tp	1mA	RLG	OBS	AF124 2N990
2SA21	P G	TO1	L02	12V	-	1V	2mA	75C	15mWF	25M	3P0	50tp	1mA	RLG	OBS	AF124 2N990
2SA22	P G	TO5	L04	20V	-	-	15mA	70C	100mWF	4M	-	25mn	1mA	RLA	OBS	ASY27 2N1305
2SA23	P G	TO5	L04	20V	-	-	20mA	70C	100mWF	3M	-	25mn	1mA	RLA	OBS	ASY27 2N1305
2SA24	P G	TO1	L02	30V	-	-	15mA	70C	60mWF	40M	-	40mn	1mA	VLA	OBS	AF124 2N990
2SA25	P G	TO1	L02	25V	-	-	15mA	70C	-	40M	-	25mn	1mA	VLA	OBS	AF124 2N990
2SA26	P G	TO5	L04	20V	-	6V	50mA	75C	125mWF	2M	20P	60tp	1mA	RLG	OBS	ASY27 2N1305
2SA27	P G	TO44	L36	18V	-	-	-	75C	-	20M	-	30mn	1mA	RLA	OBS	AF124 2N990
2SA28	P G	TO44	L36	18V	-	1V	5mA	75C	55mWF	4M	12P	30tp	1mA	RLG	OBS	OC44N 2N2614
2SA29	P G	TO44	L36	18V	-	-	5mA	75C	55mWF	30M	6P0	30tp	1mA	RLG	OBS	AF124 2N990
2SA30	P G	TO1	L02	12V	-	1V	15mA	75C	80mWF	4M	12P	75tp	1mA	RLG	FUJ	OC44N 2N2614
2SA31	P G	TO1	L02	12V	-	1V	10mA	75C	80mWF	2M	12P	50tp	1mA	RLG	FUJ	OC44N 2N2614
2SA32	P G	OBS	OBS	20V	-	10V	50mA	75C	100mWF	4M	15P	65tp	1mA	RLG	FUJ	OC44N 2N2614
2SA33	P G	OBS	OBS	20V	-	10V	25mA	75C	100mWF	2M	15P	65tp	1mA	RLG	FUJ	OC44N 2N2614
2SA35	P G	TO1	L02	16V	-	1V	15mA	85C	80mWF	4M	12P	75tp	1mA	RLG	FUJ	OC44N 2N2614
2SA36	P G	TO1	L02	16V	-	1V	15mA	85C	80mWF	2M	12P	50tp	1mA	RLG	FUJ	OC44N 2N2614
2SA37	P G	OBS	OBS	18V	-	12V	5mA	75C	25mWF	2M	-	25mn	1mA	RLA	TOS	OC44N 2N2614
2SA38	P G	OBS	OBS	18V	-	12V	5mA	75C	25mWF	1500K	-	20mn	1mA	RLA	TOS	OC44N 2N2614
2SA39	P G	OBS	OBS	18V	-	12V	5mA	75C	25mWF	4M	-	50mn	1mA	RLA	TOS	OC44N 2N2614
2SA40	P G	TO1	L02	25V	18V	12V	50mA	85C	80mWF	2M	12P	65tp	1mA	RLG	FUJ	OC44N 2N2614
2SA41	P G	TO1	L02	35V	-	20V	40mA	75C	250mWF	2M	12P	45tp	1mA	RLG	OBS	OC44N 2N2614
2SA42	P G	TO1	L02	45V	-	20V	40mA	75C	250mWF	2M	13P	45tp	1mA	RLG	OBS	OC44N 2N2614
2SA43	P G	TO44	L36	35V	-	1V	10mA	85C	80mWF	15M	3P0	60tp	1mA	RLG	FUJ	AF124 2N990
2SA44	P G	X01	L03	15V	-	10V	10mA	75C	80mWF	6M	-	50mn	1mA	RLA	OBS	OC44N 2N2614
2SA45	P G	TO1	L02	18V	-	12V	10mA	70C	80mWF	6M	-	50mn	1mA	RLA	OBS	OC44N 2N2614
2SA46	P G	TO5	L04	12V	-	-	25mA	70C	100mWF	4M	-	50mn	1mA	RLA	FUJ	AF124 2N990
2SA47	P G	TO5	L04	12V	-	-	25mA	70C	100mWF	2M	-	30mn	1mA	RLA	FUJ	AF124 2N990
2SA48	P G	TO1	L02	18V	-	12V	5mA	75C	60mWF	6M	-	40mn	1mA	RLA	TOS	OC44N 2N2614
2SA49	P G	TO1	L02	18V	-	12V	5mA	75C	60mWF	5M	13P	30/200	1mA	RLG	TOS	OC44N 2N2614
2SA50	P G	TO1	L02	18V	-	12V	24mA	75C	55mWF	6M	13P	70tp	1mA	RLG	OBS	OC44N 2N2614
2SA51	P G	TO1	L02	18V	-	12V	5mA	75C	60mWF	6M	13P	30/55	1mA	RLG	OBS	OC44N 2N2614
2SA52	P G	TO1	L02	18V	-	12V	5mA	75C	80mWF	4M	13P	25/170	1mA	RLG	TOS	OC44N 2N2614
2SA53	P G	TO1	L02	18V	-	12V	5mA	75C	60mWF	2M	13P	20/130	1mA	RLG	TOS	OC44N 2N2614
2SA54	P G	TO72	L06	20V	15V	-	10mA	85C	75mWF	180M	2P0	12tp	2mA	ULA	OBS	AF106
2SA55	P G	X01	L03	15V	-	10V	10mA	75C	80mWF	2M	-	20mn	1mA	RLG	OBS	OC44N 2N2614
2SA56	P G	TO18	L01	15V	15V	3V	50mA	85C	150mWF	150M	7P0	40tp	10mA	VLA	OBS	AF106
2SA57	P G	TO44	L36	18V	12V	-	10mA	75C	55mWF	40M	4P0	80tp	1mA	RLG	OBS	AF124 2N990
2SA58	P G	TO44	L36	18V	-	-	10mA	75C	55mWF	35M	3P0	80tp	1mA	RLG	OBS	AF124 2N990
2SA59	P G	TO1	L02	18V	-	-	5mA	75C	55mWF	30M	-	66tp	1mA	RLG	OBS	AF124 2N990
2SA60	P G	TO44	L36	18V	-	-	5mA	75C	55mWF	25M	3P0	70tp	1mA	RLG	OBS	AF124 2N990
2SA61	P G	TO1	L02	20V	-	-	10mA	75C	100mWF	30M	-	40mn	1mA	RLG	OBS	AF124 2N990
2SA64	P G	TO1	L02	16V	12V	9V	40mA	85C	80mWF	6M	12P	65tp	1mA	RLG	FUJ	OC44N 2N2613
2SA65	P G	TO1	L02	18V	-	12V	200mA	75C	150mWF	3M	13P	70tp	1mA	RLG	OBS	OC44N 2N2614
2SA66	P G	TO1	L02	18V	-	12V	200mA	75C	150mWF	4M	13P	70tp	1mA	RLG	OBS	OC44N 2N2614
2SA67	P G	TO1	L02	18V	-	12V	200mA	75C	150mWF	6M	13P	70tp	1mA	RLG	OBS	OC44N 2N2614
2SA68	P G	TO7	L07	20V	-	1V	10mA	75C	100mWF	40M	6P0	150tp	1mA	RLG	MAT	AF124 2N990
2SA69	P G	TO7	L07	20V	-	1V	10mA	75C	100mWF	40M	6P0	150tp	1mA	RLG	MAT	AF124 2N990
2SA70	P G	TO7	L07	20V	-	1V	10mA	75C	100mWF	40M	5P0	150tp	1mA	RLG	MAT	AF124 2N990
2SA71	P G	TO7	L07	20V	-	1V	10mA	75C	100mWF	50M	5P0	150tp	1mA	RLG	MAT	AF124 2N990
2SA72	P G	TO44	L36	18V	-	-	5mA	75C	55mWF	20M	3P0	50tp	1mA	RLG	OBS	AF124 2N990
2SA73	P G	TO44	L36	18V	-	-	5mA	75C	55mWF	15M	3P0	50tp	1mA	RLG	OBS	AF124 2N990
2SA74	P G	TO44	L36	50V	-	-	5mA	75C	125mWF	30M	3P0	70tp	5mA	RLG	OBS	AF124 2N2614
2SA75	P G	TO44	L36	20V	-	-	5mA	75C	125mWF	12M	3P0	70tp	1mA	RLG	OBS	AF124 2N990
2SA76	P G	TO44	L36	18V	-	-	5mA	75C	55mWF	60M	3P0	70tp	1mA	RLG	OBS	AF124 2N2614
2SA77	P G	TO44	L36	18V	-	-	5mA	75C	110mWF	50M	3P0	70tp	1mA	RLG	OBS	AF124 2N990
2SA78	P G	TO44	L36	40V	-	2V	400mA	75C	125mWF	12M	4P0	70tp	1mA	RLG	OBS	AF124 2N990
2SA79	P G	TO1	L02	18V	12V	12V	200mA	75C	55mWF	3M	-	70tp	100mA	RMS	OBS	ASY27 2N1305
2SA80	P G	TO44	L36	20V	-	-	10mA	85C	80mWF	25M	-	80tp	1mA	RLG	OBS	AF124 2N990
2SA81	P G	TO44	L36	20V	-	-	10mA	70C	80mWF	20M	-	80tp	1mA	RLG	OBS	AF124 2N990
2SA82	P G	TO44	L36	20V	-	-	10mA	70C	80mWF	20M	-	80tp	1mA	RLG	OBS	AF124 2N990
2SA83	P G	TO44	L36	25V	-	-	10mA	70C	80mWF	15M	-	80tp	1mA	RLG	OBS	AF124 2N990