

2N4228-2N4319

TYPE	MATERIAL	POLARITY	REPLACE- MENT	PAGE NUMBER	USE	MAXIMUM RATINGS						ELECTRICAL CHARACTERISTICS									
						P_D @ 25°C	Ref Point	T_J °C	V_{CB} (volts)	V_{CE-} (volts)	Subscript	$h_{FE} @ I_C$		$V_{CE(SAT)}$ @ I_C (volts)	h_{f-} Units	Subscript	f_{-} Units	Subscript			
												(min)	(max)								
2N4228	S	P	2N4402	5-34	RFA	300M	A	125	60	40	0	25	150	150M	0.7	1.5A	40	E	200M	T	
2N4231	S	N			LPA	35W	C	200	60	40	0	25	100	1.5A	0.7	1.5A			1.0M	T	
2N4232	S	N			LPA	35W	C	200	60	80	0	25	100	1.5A	0.7	1.5A			1.0M	T	
2N4233	S	N			LPA	35W	C	200	60	60	0	25	100	1.5A	0.7	1.5A			1.0M	T	
2N4234	S	P		7-156	PMS	1.0W	A	200	40	40	0	30	150	250M	0.6	1.0A	40	E	3.0M	T	
2N4235	S	N		7-156	PMS	1.0W	A	200	60	60	0	30	150	250M	0.6	1.0A			3.0M	T	
2N4236	S	N		7-156	PMS	1.0W	A	200	80	80	0	30	150	250M	0.6	1.0A			3.0M	T	
2N4237	S	N		7-161	LPA	5.0W	C	175	50	40	0	40	160	500M	2.5	1.0A	40	E	10M	T	
2N4238	S	P		7-161	LPA	5.0W	C	175	80	60	0	40	160	500M	2.5	1.0A	40	E	10M	T	
2N4239	S	N		7-161	LPA	5.0W	C	175	100	60	0	40	160	500M	2.5	1.0A	40	E	10M	T	
2N4240	S	N			LPA	35W	C		440	300	0	30	240	0.75A					15M	T	
2N4242	G	P			LPA	105W	A		80	60	0	40	80	5.0A					500K	T	
2N4243	G	P			LPA	105W	A		60	45	0	40	80	5.0A					500K	T	
2N4244	G	P			LPA	105W	A		40	30	0	40	80	5.0A					500K	T	
2N4245	G	P			LPA	105W	A		80	60	0	60	120	5.0A					500K	T	
2N4246	G	P			LPA	105W	A		60	45	0	60	120	5.0A					500K	T	
2N4247	G	P			LPA	105W	A		40	30	0	60	120	5.0A					500K	T	
2N4248	S	P	2N5086	5-55	AFA	200M	A	125	40	40	0						50	E	40M	T	
2N4249	S	P	2N5086	5-55	AFA	200M	A	125	60	60	0						100	E	40M	T	
2N4250	S	P	2N5087	5-55	AFA	200M	A	125	40	40	0						250	E	40M	T	
2N4251	S	N			MSA	250M	A	200	15	10	0	100		10M					1300M	T	
2N4252	S	N			RFA	200M	A	175	30	18	0	50		2.0M					600M	T	
2N4253	S	N			RFA	200M	A	175	30	18	0	30		2.0M					600M	T	
2N4254	S	N	MPS6547	5-135	AFA	200M	A	175	30	18	0	50		2.0M						600M	T
2N4255	S	N	MPS6547	5-135	AFA	200M	A	175	30	18	0	30		2.0M							T
2N4256	S	N	2N3904	5-11	AFA	200M	A	125	6.0	6.0	0	30	500	2.0M							T
2N4257	S	P			HSS	200M	A	125	12	12	0	30	120	1.0M						500M	T
2N4258	S	P			HSS	200M	A	125	12	12	0	30	120	1.0M						700M	T
2N4259	S	N			RFA	175M	A	175	40	30	0						70	E			T
2N4260	S	P	8-298		HNS	200M	A	200	15	15	0	30	150	10M	15	10M	16	E	1500M	T	
2N4261	S	P	8-298		HNS	200M	A	200	5.0	15	0	30	150	15A	15	10M	20	E	2000M	T	
2N4262	S	N			LPA	1.5W	C		25	10	0	75		0.3A						600M	T
2N4263	S	N			LPA	1.5W	C		25	10	0	75		0.3A						800M	T
2N4264	S	N		5-29	MSA	310M	A	135	30	15	0	40	160	10M						300M	T
2N4265	S	N		5-29	HSS	310M	A	135	30	12	0	100	400	15A	0.22	10M				300M	T
2N4267	S	N																			T
thru Field Effect Transistors, see Table on Page 1-166																					
2N4268	S	N			AFC	360M	A	200	200	140	0		200	10M							T
2N4269	S	N			AFC	580M	A	200	200	140	0		200	10M							T
2N4270	S	N			LPA	5.0W	C		175	140	0	20	140	0.2A						20M	T
2N4271	S	N			LPA	5.0W	C		175	140	0	20	140	1.0A						10M	T
2N4272	S	N			LPA	25W	C		175	140	0	20	140	1.0A						10M	T
2N4273	S	N			HSS	280M	A	125	30	12	0	18		100M						400M	T
2N4274	S	N			HSS	280M	A	125	40	15	0	18		100M						400M	T
2N4275	S	N		7-163	LPA	170W	C	110	30	20	0	60	120	15A	0.15	15A				2.0K	E
2N4276	G	P		7-163	LPA	170W	C	110	30	20	0	80	180	15A	0.15	15A				2.0K	E
2N4277	G	P		7-163	LPA	170W	C	110	45	30	0	60	120	15A	0.15	15A				2.0K	E
2N4278	G	P			LPA	170W	C	110	45	30	0	60	120	15A	0.15	15A				2.0K	E
2N4279	G	P		7-163	LPA	170W	C	110	60	45	0	80	180	15A	0.15	15A				2.0K	E
2N4280	G	P		7-163	LPA	170W	C	110	60	45	0	60	120	15A	0.15	15A				2.0K	E
2N4281	G	P		7-163	LPA	170W	C	110	60	45	0	80	180	15A	0.15	15A				2.0K	E
2N4282	G	P		7-163	LPA	170W	C	110	75	60	0	60	120	15A	0.15	15A				2.0K	E
2N4283	G	P		7-163	LPA	170W	C	110	75	60	0	80	180	15A	0.15	15A				2.0K	E
2N4284	S	P			250M	A	165	25	25	0	600	1.0M									T
2N4285	S	P			250M	A	165	35	35	0	600	1.0M									T
2N4286	S	N	MPS6515	5-109	AFA	250M	A	150	30	25	0						600	E	40M	T	
2N4287	S	N	MPS6566	5-148	AFA	250M	A	150	45	45	0						600	E	40M	T	
2N4288	S	P	MPS6518	5-113	AFA	250M	A	150	30	25	0						600	E	40M	T	
2N4289	S	P	2N5086	5-55	AFA	250M	A	150	60	45	0						600	E	40M	T	
2N4290	S	P	MPS6533	5-118	AFA	250M	A	150	30	20	0						600	E	40M	T	
2N4291	S	P	MPS6534	5-118	AFA	250M	A	150	40	30	0						600	E	40M	T	
2N4292	S	N	MPS918	5-74	AFA	200M	A	150	30	15	0	20		3.0M						600M	T
2N4293	S	N	MPS918	5-74	AFA	200M	A	150	30	15	0						60	E	600M	T	
2N4294	S	N	2N4264	5-29	HSS	200M	A	150	30	12	0	30	120	10M						400M	T
2N4295	S	N	2N4264	5-29	HSS	200M	A	150	40	15	0	40	120	10M						500M	T
2N4296	S	N			LPA	20W	C		350	250	0	50	150	0.05A						20M	T
2N4297	S	N			LPA	20W	C		350	250	0	75	300	0.05A						20M	T
2N4298	S	N			LPA	20W	C		500	350	0	25	75	0.05A						20M	T
2N4299	S	N			LPA	20W	C		500	350	0	50	150	0.05A						20M	T
2N4300	S	N			LPA	15W	C		100	80	0	30	120	1.0A						30M	T
2N4301	S	N			LPA	50W	C		100	80	0	30	120	5.0A						40M	T
2N4302	S	N																			T
thru Field Effect Transistors, see Table on Page 1-166																					
2N4304	S	N			LPA	1.5W	A		120	80	0	50	150	1.0A							T
2N4305	S	N			LPA	4.0W	A		120	80	0	50	150	1.0A							T
2N4306	S	N			LPA	1.5W	A		100	60	0	50	150	1.0A							T
2N4307	S	N			LPA	4.0W	A		100	60	0	50	150	1.0A							T
2N4308	S	N			LPA	1.5W	A		120	80	0	50	150	1.0A							T
2N4309	S	N			LPA	4.0W	A		120	80	0	40	120	1.0A							T
2N4310	S	N			LPA	1.5W	A		100	60	0	40	120	1.0A							T
2N4311	S	N			LPA	4.0W	A		100	60	0	40	120	1.0A							T
2N4312	S	N			LPA	4.0W	A		100	60	0	40	120	1.0A							T
2N4313	S	P			CHP	200M	A	125	12	12	0	30	120	30M						700M	T
2N4314	S	P			LPA	1.0W	A		90	65	0	50	250	0.15A						200M	T
2N4316	S	P																			T
thru Thyristors, see Table on Page 1-154																					
2N4319	S	N																			T