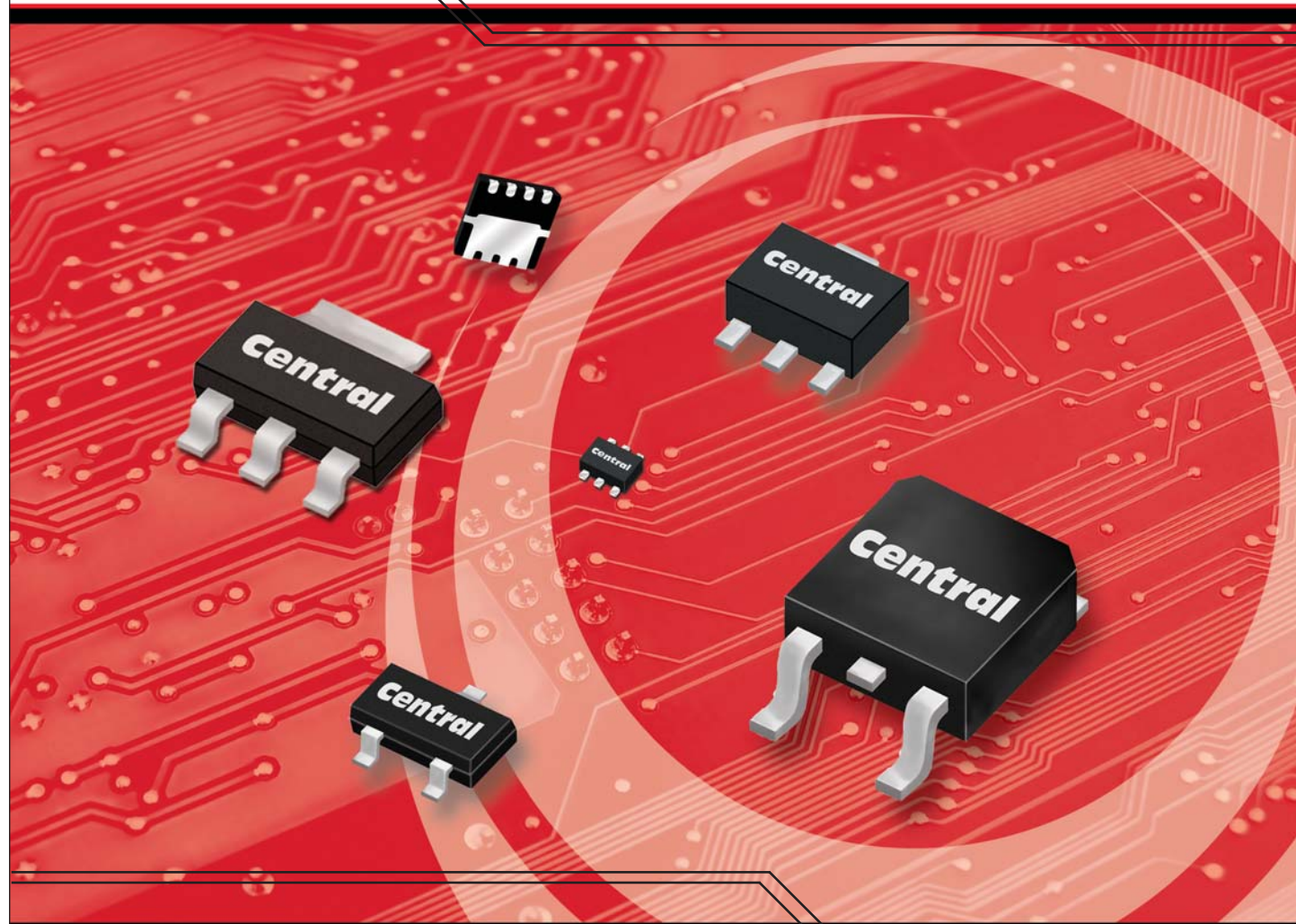


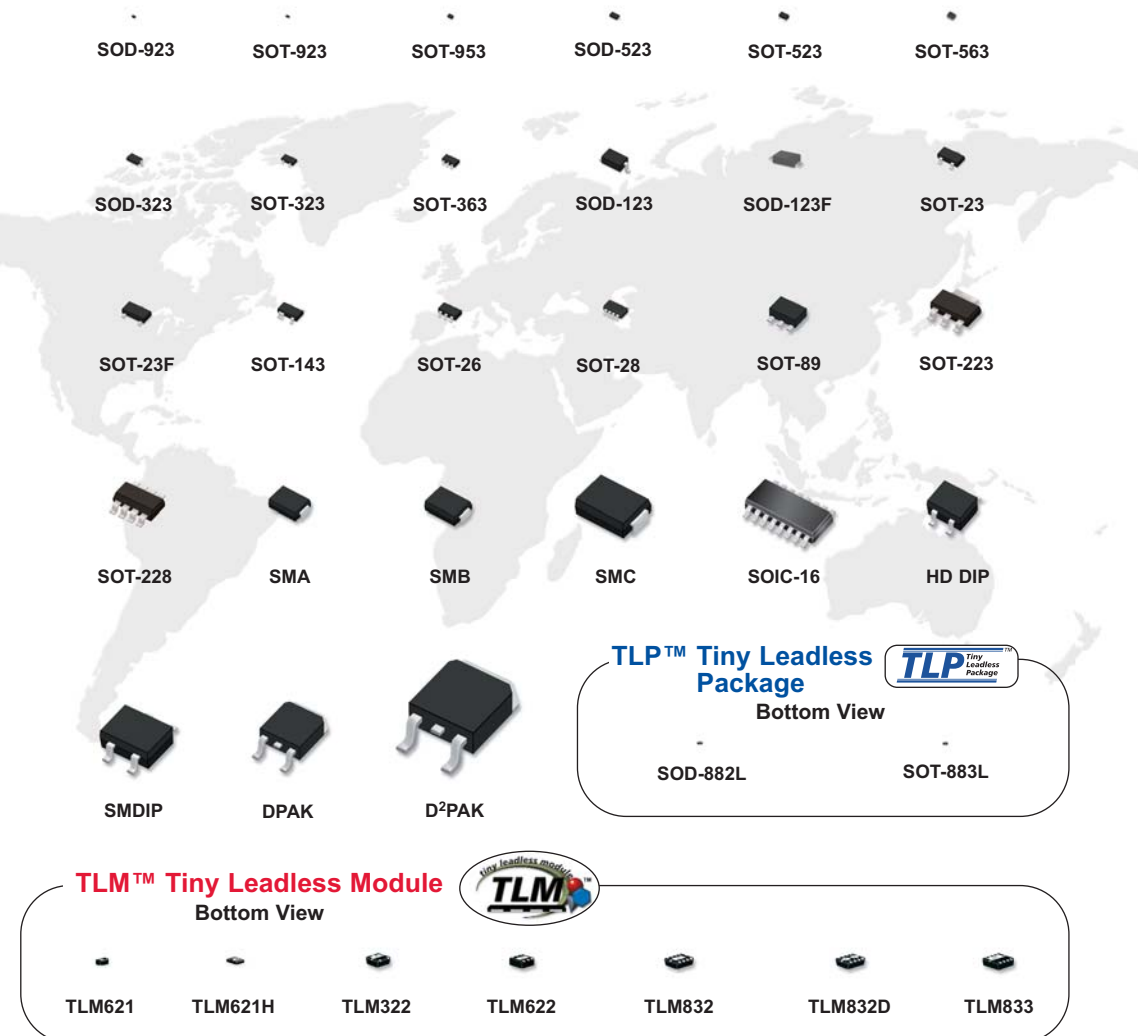
Bipolar Power Transistors



- General Purpose Amplifiers/Switches
- High Voltage
- Extremely High Voltage
- Darlington
- Low $V_{CE(SAT)}$










Surface Mount Packages (Actual Size)




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General Purpose Amplifiers/Switches

	FAMILY	I _C (A) MIN	BV _{CBO} * BV _{CEV} (V) MIN	BV _{CEO} (V) MIN	h _{FE}		@ I _C (A)	V _{CE(SAT)} (V) MAX	@ I _C (A)	f _T †TYP. (MHZ) MIN	FAMILY	TLM833	SOT-563	SOT-23	SOT-89	SOT-223	DPAK
					MIN	MAX											
 Devices are listed in order of descending I _C .																	
NPN	3055	10	70	60	20	100	4.0	1.1	4.0	-	3055					CZT3055	CJD3055
	44H11	8.0	80	80	40	-	4.0	1.0	8.0	60†	44H11						CJD44H11
	853	6.0	200	100	100	300	2.0	0.17	2.0	190†	853	CTLT853-M833			CXT853	CZT853	
	41C	6.0	100	100	15	75	3.0	1.5	6.0	3.0	41C						CJD41C
	3150	5.0	50	25	150	-	2.0	0.5	4.0	150†	3150					CZT3150	
	5338	5.0	100	100	30	120	2.0	1.2	5.0	30	5338					CZT5338	
	200	5.0	40	25	45	180	2.0	1.8	5.0	65	200						CJD200
	31C	3.0	100	100	10	50	3.0	1.2	3.0	3.0	31C					CZT31C	CJD31C
	3120	3.0	120	70	100	300	0.5	0.5	2.0	8.0	3120					CZT3120	
	A44HC	2.0	450	400	30	-	1.0	0.5	1.0	10	A44HC					CZTA44HC	
2680	1.5	250	200	40	-	0.5	0.5	1.0	50	2680					CZT2680		
491E	1.0	80	60	200	600	0.5	0.4	1.0	150	491E		CMLT491E	CMPT491E	CXT491E			
PNP	2955	10	70	60	20	100	4.0	1.1	4.0	2.0	2955					CZT2955	CJD2955
	45H11	8.0	80	80	40	-	4.0	1.0	8.0	50†	45H11						CJD45H11
	42C	6.0	100	100	15	75	3.0	1.5	6.0	3.0	42C						CJD42C
	953	5.0	140	100	100	300	1.0	0.22	2.0	150†	953	CTLT953-M833			CXT953	CZT953	
	210	5.0	40	25	45	180	2.0	1.8	5.0	5.0	210						CJD210
	32C	3.0	100	100	10	50	3.0	1.2	3.0	3.0	32C					CZT32C	CJD32C
	7120	3.0	120	70	100	300	0.5	0.5	2.0	8.0	7120					CZT7120	
	591E	1.0	80	60	200	600	0.5	0.4	1.0	150	591E		CMLT591E	CMPT591E			

High Voltage

 Devices are listed in order of descending breakdown voltage.																	
	FAMILY	I _C (A) MIN	BV _{CBO} * BV _{CEV} (V) MIN	BV _{CEO} (V) MIN	h _{FE} MIN	h _{FE} MAX	@ I _C (A)	V _{CE(SAT)} (V) MAX	@ I _C (A)	f _T †TYP. (MHZ) MIN	FAMILY	TLM833	SOT-563	SOT-23	SOT-89	SOT-223	DPAK
NPN	13003	1.5	700*	400	5.0	25	1.0	3.0	1.5	4.0	13003						CJD13003
	50	1.0	500	400	30	150	0.3	1.0	1.0	10	50						CJD50
	47	1.0	350	250	30	150	0.3	1.0	1.0	10	47						CJD47
	340	0.5	300	300	30	240	0.05	-	-	-	340						CJD340
PNP	350	0.5	300	300	30	240	0.05	-	-	-	350						CJD350


Extremely High Voltage

NPN	UX87	0.5	900*	450	12	-	0.04	1.0	0.2	20†	UX87						CZTUX87
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Darlington

NPN	112	2.0	100	100	1,000	12,000	2.0	2.0	2.0	25	112						CJD112
	122	8.0	100	100	1,000	12,000	4.0	4.0	8.0	4.0	122					CZT122	CJD122
PNP	117	2.0	100	100	1,000	12,000	2.0	2.0	2.0	25	117						CJD117
	127	8.0	100	100	1,000	12,000	4.0	4.0	8.0	4.0	127					CZT127	CJD127

Low V_{CE(SAT)}

Devices are listed in order of descending V _{CE(SAT)} 																	
	FAMILY	I _C (A) MIN	BV _{CBO} * BV _{CEV} (V) MIN	BV _{CEO} (V) MIN	h _{FE} MIN	h _{FE} MAX	@ I _C (A)	V _{CE(SAT)} (V) MAX	@ I _C (A)	f _T †TYP. (MHZ) MIN	FAMILY	TLM833	SOT-563	SOT-23	SOT-89	SOT-223	DPAK
NPN	3150	5.0	50	25	150	-	2.0	0.6	4.0	150†	3150				CXT3150	CZT3150	
	3090L	3.0	45	15	200	-	1.0	0.3	3.0	100	3090L				CXT3090L	CZT3090L	
NPN	7090L	3.0	50	40	200	-	1.0	0.75	2.0	100	7090L				CXT7090L	CZT7090L	

 Indicates Sorted Columns.