

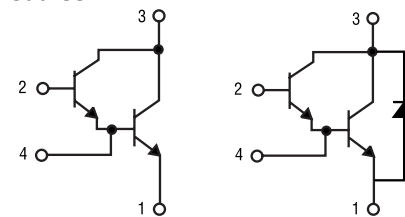
**High Voltage Power Transistors D Vceo
150V to 800V - continued**

Audio Power Output Transistors - continued

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
MJE15032 (MC)	439-9110▲	76.00	44.00	37.00	27.00	--
MJE15032G (ON)	955-6621●	90.00	68.00	56.00	44.00	--
MJE15032 (ON)	449-039▲	92.00	71.00	58.00	45.00	--
MJE15033	473-522▲	92.00	71.00	58.00	45.00	--
MJE15033G	955-6630●	90.00	68.00	56.00	44.00	--
MJL1302A	708-501▲	355.00	272.00	216.00	172.00	--
MJL1302AG	955-7040●	345.00	264.00	210.00	166.00	--
MJL21193	162-255▲	407.00	322.00	256.00	203.00	--
MJL21193G	955-5781●	409.00	313.00	249.00	198.00	--
MJL21194	162-267▲	335.00	257.00	204.00	172.00	--
MJL21194G	955-5790●	325.00	249.00	198.00	157.00	--
MJL3281A	708-495▲	328.00	251.00	199.00	158.00	--
TMJE15032	920-6965●	76.00	44.00	37.00	27.00	--
2SA1216	410-3713	388.00	369.00	362.00	301.00	--
2SA1216	119-2132●	388.00	369.00	362.00	301.00	--
2SA1294	410-3695	239.00	228.00	224.00	182.00	--
2SA1294	119-2130●	239.00	228.00	224.00	182.00	--
2SA1295	410-3737	394.00	374.00	281.00	285.00	--
2SA1295	119-2134●	394.00	374.00	281.00	268.00	--
2SA1386	410-3671	211.00	200.00	195.00	171.00	--
2SA1386	119-2128●	211.00	200.00	195.00	171.00	--
2SA1673	410-3634	280.00	266.00	246.00	218.00	--
2SA1943-0	121-8390●	214.00	204.00	124.00	114.00	--
2SB817	410-3658	174.00	167.00	144.00	108.00	--
2SC2922	410-3701	411.00	391.00	385.00	322.00	--
2SC2922	119-2131●	411.00	391.00	385.00	322.00	--
2SC3263	410-3683	255.00	243.00	236.00	195.00	--
2SC3263	119-2129●	255.00	243.00	236.00	195.00	--
2SC3264	410-3725	394.00	374.00	281.00	285.00	--
2SC3264	119-2133●	394.00	374.00	281.00	268.00	--
2SC3519	118-2828●	211.00	200.00	195.00	171.00	--
2SC4388	410-3622	211.00	200.00	195.00	171.00	--
2SC5200-0	121-8389●	214.00	204.00	124.00	120.00	--
2SD1047	410-3646	166.00	158.00	140.00	114.00	--
2SD1047	119-2126●	166.00	158.00	140.00	107.00	--
MJL3281AG	117-2585●	328.00	251.00	199.00	158.00	--
MJL1302AG	955-7040●	345.00	264.00	210.00	166.00	--
SAP15N	118-2829●	369.00	351.00	312.00	268.00	--
SAP15P	118-2830●	369.00	351.00	312.00	268.00	--

Mfrs. List No.	Mfr.	Order Code	5+	25+	100+	500+	+
FZT605	ZET	SMD 538-279▲	52.00	39.00	26.00	20.00	--
FZT605	ZET	SMD 952-6374●	52.00	39.00	26.00	20.00	--
FZT705	ZET	SMD 538-280▲	50.00	38.00	25.00	19.00	--
FZT705	ZET	SMD 952-6382●	50.00	38.00	25.00	18.00	--
MJD122	ON	SMD 708-550▲	50.00	38.00	30.00	26.00	--
MJD122G	ON	SMD 955-7075●	49.00	37.00	29.00	25.00	--
MJD127	ON	SMD 708-562▲	70.00	52.00	42.00	36.00	--
MJD127G	ON	SMD 955-7083●	68.00	51.00	41.00	35.00	--
MMBTA13	FCH	SMD 743-021‡	5.00	4.00	3.00	2.00	--
MMBTA13	FCH	SMD 984-6590●	5.00	4.00	3.00	2.00	--

NPN Darlington Power Modules



ISOTOP
H=12.2, W=25.4, D=38.2

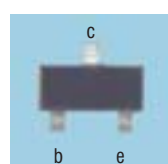
I _C A	V _{CE0} V	I _{C(pk)} A	I _B A	h _{FE} typ.	@	I _C A	P _{TOT} W	Pin Config.	Mfrs. List No.
120	125	128	2	1200		120	175	b	ESM2012DV
67	300	100	3	300		56	150	b	ESM2030DV
100	300	150	5	300		85	225	b	ESM3030DV
24	450	36	2.5	120		20	125	b	ESM3045DV
42	450	63	4	220		35	150	a	ESM4045DV
60	450	90	6	150		50	175	b	ESM5045DV
72	450	108	8	150		60	250	b	ESM6045AV
84	450	126	8	120		70	250	b	ESM6045DV

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
ESM2012DV	980-2290●	1,587.00	1,266.00	1,151.00	1,052.00	--
ESM2030DV	980-2304●	1,556.00	1,187.00	1,079.00	986.00	--
ESM3030DV	980-2312●	1,910.00	1,523.00	1,386.00	1,266.00	--
ESM3045DV	980-2320●	1,160.00	885.00	805.00	735.00	--
ESM4045DV	980-2339●	1,584.00	1,264.00	1,149.00	1,050.00	--
ESM5045DV	980-2347●	2,182.00	1,708.00	1,583.00	1,447.00	--
ESM6045AV	980-2355●	2,526.00	1,977.00	1,832.00	1,674.00	--
ESM6045DV	980-2363●	2,951.00	2,310.00	2,141.00	1,957.00	--

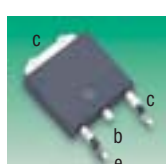
Darlington Transistors

SOT-23, SOT-223 and D-Pak Darlington

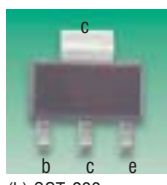
Surface Mount Darlington



(a) SOT-23
H=1.12, W=3.05, D=2.5



(c) TO-252/D-pak
H=2.55, W=6.8, D=10.5



(b) SOT-223
H=1.7, W=6.7, D=7.3

V _{CE0} max. V	V _{CE0} max. V	I _C (av) max. A	h _{FE} min.	@	I _C A	Device Marking	Package	Mfr.	Mfrs. List No.	PNP
30	30	0.3	10000	10	1M		a	FCH	MMBTA13	--
40	40	0.3	20000	0.1	1N		a	ZET	FMMTA14	--
60	80	0.3	10000	0.5	7J		a	ZET	FMMT38C	--
60	80	0.5	20000	0.1	FGp		a	PS	BCV47	--
80	90	0.5	2000	0.5			a	PS	BST52	--
100	120	0.5	15000	0.1			a	ZET	FMMT614	--
100		8	1000	4			c	ON	MJD122	MJD127
120	140	1.5	5000	0.5			b	ZET	FZT605	--
120	140	2	3000	1			b	ZET		FZT705
140	160	2	5000	0.5			b	ZET	FZT603	--
140	160	2	5000	0.5			b	ZET	FZT603	--

Mfrs. List No.	Mfr.	Order Code	5+	25+	100+	500+	+
BCV47	PS	SMD 302-3333‡	16.00	13.00	10.00	8.00	--
BCV47	PS	SMD 108-1260●	16.00	13.00	10.00	8.00	--
BST52	PS	SMD 873-5026●	63.00	28.00	22.00	18.00	--
FMMT38A	ZET	SMD 302-6980●	48.00	34.00	23.00	15.00	--
FMMT38C	ZET	SMD 516-934▲	19.00	14.00	10.00	7.00	--
FMMT38C	ZET	SMD 952-6315●	19.00	14.00	10.00	7.00	--
FMMT614	ZET	SMD 438-6759▲	25.00	18.00	12.00	9.00	--
FMMT614	ZET	SMD 952-6030●	24.00	18.00	12.00	8.00	--
FMMTA14	ZET	SMD 438-6784▲	24.00	17.00	12.00	7.00	--
FMMTA14	ZET	SMD 952-6072●	18.00	14.00	9.00	7.00	--
FZT600	ZET	SMD 707-806▲	68.00	49.00	32.00	21.00	--
FZT600	ZET	SMD 952-6650●	52.00	39.00	26.00	20.00	--
FZT603	ZET	SMD 438-6814▲	68.00	49.00	32.00	21.00	--
FZT603	ZET	SMD 952-6099●	67.00	48.00	31.00	20.00	--

RF Bipolar Transistors

TO-39, TO-92

I _C max. A	V _{CE0} max. V	V _{CE0} max. V	P _{tot} @ 25°C W	f _T typ. (*min.) MHz	h _{FE} min.	@ I _C mA	Package	Pin Out	Mfr.	Mfrs. List No.
0.025	25	40	500	550*	38	7	TO-92	g	PS/PS	BF199
0.025	25	40	0.5	550*	38	7	TO-92	g	MC/MC	TBF199
1	300	350	10	15*	30	50	TO-39	—	ST/MC	2N5416
1	300	350	10	15*	30	50	TO-39	—	MC/MC	2N5416

Order Multiple=1

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
2N5416(ST)	980-1332●	98.00	75.00	55.00	43.00	--
2N5416(MC)	920-7090●	217.00	131.00	96.00	61.00	--
BF199(PS)	109-7160●	19.00	15.00	12.00	10.00	--
TBF199(MC)	920-7597●	26.00	14.00	8.00	5.00	--

Low Power, Wideband

