

E-Line (TO-92) General Purpose Amplifiers/Switches



V _{CEO} V	V _{CE0} max. V	I _C A	h _{FE} min.	f _T MHz	P _{TOT} mW	Package	Mfrs. List No.	NPN	PNP
25	25	0.5	50	10	150	300	TO-92(e)	ZTX300	ZTX500
30	45	0.1	125	2	150	300	TO-92(e)	ZTX108	—
30	45	0.1	450	2	150	300	TO-92(e)	ZTX108C	—
35	35	0.5	100	10	150	300	TO-92(e)	ZTX302	ZTX502
45	50	0.8	100	100	200*	750	TO-92(e)	ZTX337	—
50	60	0.1	125	2	150	300	TO-92(e)	ZTX107	—
50	60	0.1	240	2	150	300	TO-92(e)	ZTX107B	—
50	60	0.2	60	2	200	500	TO-92(e)	—	ZTX212
50	60	0.2	200	2	200	500	TO-92(e)	—	ZTX212B
70	70	0.5	50	10	150	300	TO-92(e)	ZTX304	ZTX504
80	80	0.5	50	100	100	625	TO-92(e)	MPSA06	MPSA56

SD27

Order Multiple=5		Price Each				
Mfrs. List No.	Order Code	5+	25+	100+	1K+	5K+
MPSA06	357-716					
MPSA56	357-777					
ZTX107	357-856					
ZTX107B	357-870					
ZTX108	357-881					
ZTX108C	357-893					
ZTX212	357-935					
ZTX212B	357-947					
ZTX300	357-996					
ZTX302	358-010					
ZTX304	358-022					
ZTX337	358-095					
ZTX500	358-162					
ZTX502	358-186					
ZTX504	358-204					

TO-77 Dual Matched Differential Amplifiers, NPN

V _{CEO} V	V _{CE0} max. V	I _C A	h _{FE} min.	f _T MHz	P _{TOT} mW	Package	Mfrs. List No.
45	45	0.1	10*	3	—	TO-77	BFY81

SD22

Mfrs. List No.		Price Each			
Order Code	1+	10+	30+	100+	
BFY81	357-595				

TO-39, TO-92 High Voltage

Devices with breakdown voltages of 200V minimum, for applications requiring relatively low collector current, such as lamp drivers and neon tubes.

V _{CEO} max. V	I _C max. A	h _{FE} min.	V _{CE(Sat)} max. V @ I _C mA	f _T min. MHz	P _{TOT} @ 25°C mW	Package and Mfr.	Mfrs. List No.	NPN	PNP		
200	0.5	50	30	0.5	20	50	680	TO-92(e)	ZET	MPSA43	MPSA93
250	0.1	50	25	0.5	20	60	830	TO-92(h)	—	BF422	BF423
300	0.1	25	30	1.0	30	25	500	TO-39	ST	BF259	—
300	0.5	40	10	2.0	20	35	625	TO-92(b)	ON	BF393	—
300	0.5	40	30	0.5	20	50	625	TO-92(b)	ON	MPSA42	MPSA92
300	0.5	40	10	0.5	20	50	625	TO-92(b)	FCH	MPSA42	MPSA92
300	0.5	40	10	0.5	20	50	680	TO-92(e)	ZET	MPSA42	MPSA92
400	0.3	40	100	0.75	50	—	625	TO-92(b)	ON	MPSA44	—

(*typ.) FOR PACKAGE AND PIN-OUT DETAILS, SEE PAGE 358

SD267

Order Multiple=5		Price Each				
Mfrs. List No.	Order Code	5+	25+	100+	1K+	3K+
BF259	357-364					
BF393	933-636					
BF422	357-418					
BF423	357-420					
MPSA42 (FCH)	357-741					
MPSA42 (ON)	933-867					
MPSA42 (ZET)	357-730					
MPSA43	357-753					
MPSA44	682-287					
MPSA92 (FCH)	357-790					
MPSA92 (ON)	933-879					
MPSA92 (ZET)	357-789					
MPSA93	357-807					

High Speed Switching

Fast switching devices exhibiting short turn-off and low saturation voltage characteristics.

V _{CEO} max. V	I _C max. A	V _{CE(Sat)} max. V @ I _C mA	t _{off} max. ns @ I _C mA	h _{FE} min. @ I _C mA	P _{TOT} @ 25°C mW	Package and Pin Out	Mfrs. List No.
NPN							
15	0.2	0.25	10	18	10	40	360 TO-18(a) MC 2N2369
15	0.2	0.25	10	18	10	40	360 TO-18(a) ST 2N2369
15	0.2	0.2	10	18	10	40	360 TO-18(a) MC 2N2369A
15	0.2	0.2	10	18	10	40	360 TO-18(a) ST 2N2369A
15	0.5	0.6	100	21	100	40	360 TO-18(a) MC/ST BSX20
15	0.5	0.5	100	18	10	40	300 TO-92(e) ZET ZTX314
15	0.5	0.24	10	18	10	40	300 TO-92(e) ZET ZTX313
30	0.8	0.4	150	—	—	100	150 800 TO-5 ST 2N2219
30	0.8	0.4	150	—	—	100	150 500 TO-18(a) MC/ST 2N2222
40	0.2	0.2	10	250	10	100	10 500 TO-92(b) — 2N3904
40	0.6	0.4	150	255	150	40	1 625 TO-92(b) — 2N4401
40	0.8	0.3	150	60	150	100	150 800 TO-5 ON/ST 2N2219A
40	0.8	0.3	150	60	150	100	150 400 TO-18(a) ST 2N2222A
45	1.0	0.7	500	100	500	25	500 800 TO-39 — BSX61
50	1.0	0.52	500	60	500	35	500 800 TO-39 ST 2N3725
60	5.0	—	—	1200	5000	40	2000 870 TO-39 — BSV64
120	2.0	—	—	900	500	40	100 800 TO-39 — BSW67A
PNP							
12	0.2	0.5	100	90	30	40	300 TO-92(e) ZET ZTX510
15	0.05	0.18	10	20	10	50	10 625 TO-92(b) FCH 2N5771
20	0.2	0.2	30	90	30	30	360 TO-18(a) — 2N3209
35	0.2	0.2	24	—	—	30	12 625 TO-92(b) ON MPS404A
40	0.2	0.25	10	300	10	100	10 625 TO-92(b) — 2N3906
40	0.6	0.4	150	30	150	100	150 600 TO-39 ST 2N2905
40	0.6	0.4	150	100	—	100	150 600 TO-18(a) MC 2N2907
40	0.6	0.4	150	30	150	100	150 400 TO-18(a) ST 2N2907
60	0.6	0.4	150	30	150	100	150 600 TO-39 ST 2N2905A
60	0.6	0.4	150	50	—	40	500 400 TO-18(a) MC/ST 2N2906A
60	0.6	0.4	150	100	—	100	150 400 TO-18(a) MC 2N2907A
60	0.6	0.4	150	30	150	100	400 TO-18(a) ST 2N2907A

FOR PACKAGE AND PIN-OUT DETAILS, SEE PAGE 358

SD268

Order Multiple = 1		Price Each				
Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
BSV64	357-601					
BSW67A	357-625					
BSX20 (MC)	301-0533					
BSX20 (ST)	357-650					
BSX61	357-686					
Order Multiple = 5		5+	25+	100+	1K+	3K+
MPS404A	682-330 †					
ZTX313	358-034					
ZTX314	358-046					
ZTX510	358-216					
2N2219	358-496					
2N2219A	358-502					
2N2222 (MC)	301-0545					
2N2222 (ST)	358-526					
2N2222A	358-538					
2N2369 (MC)	301-0510					
2N2369 (ST)	358-551					
2N2369A (MC)	301-0521					
2N2369A (ST)	358-563					
2N2905	358-617					
2N2905A	358-629					
2N2906A (MC)	301-0569					
2N2906A (ST)	358-642 †					
2N2907 (MC)	301-0557					
2N2907 (ST)	358-654 †					
2N2907A (MC)	301-0570					
2N2907A (ST)	358-666					
2N3209	358-680					
2N3725	358-794					
2N3904	358-812					
2N3904 (FCH)	358-824					
2N3904 (ON)	933-673					
2N3906	358-848					
2N3906 (ON)	933-582					
2N4401	358-976					
2N4401 (FCH)	358-988					
Order Multiple =1		1+	25+	100+	1K+	
2N5771	434-474					

† Available until stocks are exhausted

Continued

Metric Values

Yes, we're metric! All dimensions appear in metric values unless otherwise stated.