

Medium Power Bipolar Transistors (P_{tot} 1W to 3W) — continued

E-Line High Current, 3.5A to 5A

High performance transistors with optimised chip technology to give exceptionally high current capability coupled with very low saturation voltages. TO-92 compatible package.



	V_{CE0} V	I_C max. A	I_C Pulsed A	V_{CE} (Sat) V @ A	I_C A	h_{FE} min. @ A	I_C A	f_T typ. MHz	P_{tot} @ 25°C W	Mfrs. List No.
NPN	25	5	20	0.22	5	300	1	100	1.2	ZTX869
	30	5	20	0.22	5	100	1	100	1.2	ZTX849
	60	5	20	0.25	5	100	2	130	1.2	ZTX851
	100	4	10	0.2	4	100	2	130	1.2	ZTX853
PNP	60	4	15	0.3	4	100	1	120	1.2	ZTX951
	100	3.5	10	0.33	4	100	1	125	1.2	ZTX953

FOR PACKAGE AND PIN-OUT DETAILS, SEE PAGE 358

SD12

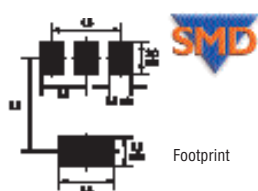
Order Multiple=5	Order Code	5+	25+	100+	1K+
Mfrs. List No.					
ZTX849	.234-590				
ZTX851	.234-618				
ZTX853	.234-620				
ZTX869	.234-606				
ZTX951	.291-183				
ZTX953	.291-195				

SOT-223, High Current



Complimentary high current devices, supplied on 12mm tape.

H = 1.7, W = 6.7, D = 7.3



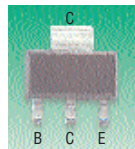
Footprint

V_{CE0} max. V	V_{CE0} max. V	I_C max. A	I_C Pulsed max. A	h_{FE} min. @ A	I_C A	P_{tot} W	Mfrs.	Mfrs. List No.	Mfrs. List No.
25	35	3	8	100	1.0	2.0	ZET	FZT649	FZT749
30	80	7	20	100	7.0	3.0	ZET	FZT849	FZT949
60	80	3	6	100	0.5	2.0	ZET	FZT651	FZT751
60	—	5	—	40	0.5	1.5	INF	BDP949	—
60	150	6	20	100	2.0	3.0	ZET	FZT851	FZT951
100	120	2	6	100	0.5	2.0	ZET	FZT653	FZT753
100	200	6	10	100	2.0	3.0	ZET	FZT853	FZT953
300	350	3.5	5	—	—	3.0	ZET	FZT857	FZT957
400	400	0.5	1	50	0.1	2.0	ZET	FZT658	FZT758

SD180

Order Multiple=5	Order Code	5+	100+	1K+	3K+
Mfrs. List No.					
BDP949	.743-240				
Order Multiple=1		1+	25+	100+	200+
FZT649	.707-715				
FZT651	.291-213				
FZT653	.291-225				
FZT658	.302-7156				
FZT749	.707-727				
FZT751	.291-237				
FZT753	.291-249				
FZT758	.302-7168				
FZT849	.707-739				
FZT851	.527-282				
FZT853	.527-294				
FZT857	.302-7170				
FZT949	.707-740				
FZT951	.538-220				
FZT953	.538-231				
FZT958	.302-7181				

SOT-223 High Gain at High Current (3A to 5A)



Supplied on 12mm tape.

H = 1.7, W = 6.7, D = 7.3



	V_{CE0} V	I_C max. A	I_C Pulsed A	V_{CE} (Sat) V @ A	I_C A	h_{FE} min. @ A	I_C A	f_T min. (*typ.) MHz	P_{tot} @ 25°C W	Mfrs. List No.
NPN	10	5.0	20	0.22	5.0	300	1.0	150*	2.5	FZT1047A
	15	4.0	10	0.45	3.0	400	3.0	150	2.0	FZT688B
	20	3.0	8	0.35	3.0	400	2.0	150	2.0	FZT689B
	30	5.0	20	0.25	5.0	300	1.0	180*	2.5	FZT1049A
	40	5.0	10	0.25	5.0	270	1.0	155*	2.5	FZT1051A
	45	3.0	6	0.50	1.0	400	1.0	150	2.0	FZT690B
	70	2.0	5	0.50	2.0	400	0.5	150	2.0	FZT692B
	75	4.5	10	0.35	4.5	300	1.0	140*	2.5	FZT1053A

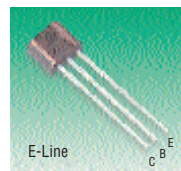
continued

	V_{CE0} V	I_C max. A	I_C Pulsed A	V_{CE} (Sat) V @ A	I_C A	h_{FE} min. @ A	I_C A	f_T min. (*typ.) MHz	P_{tot} @ 25°C W	Mfrs. List No.
PNP	15	3.0	8	0.45	2.0	300	2.0	100	2.0	FZT788B
	25	3.0	6	0.45	2.0	200	2.0	100	2.0	FZT789A
	25	4.0	10	0.35	4.0	250	0.5	135	2.5	FZT1149A
	40	3.0	6	0.75	2.0	250	0.5	100	2.0	FZT790A
	40	3.0	5	0.26	1.8	250	0.5	145	2.5	FZT1151A
	70	2.0	5	0.50	2.0	250	0.5	100	2.0	FZT792A

SD301

Order Multiple=5	Order Code	5+	100+	200+	500+	1K+
Mfrs. List No.						
FZT688B	.707-752					
FZT689B	.707-764					
FZT690B	.302-7119					
FZT692B	.302-7120					
FZT788B	.707-776					
FZT789A	.707-788					
FZT790A	.302-7132					
FZT792A	.302-7144					
FZT1047A	.302-7065					
FZT1049A	.302-7077					
FZT1051A	.302-7089					
FZT1053A	.302-7090					
FZT1149A	.935-487					
FZT1151A	.935-499					

E-Line, High Gain/High Current (0.5A to 4A)



High performance transistors featuring high gain and low saturation voltages at high currents. TO-92 compatible E-line package.

	V_{CE0} V	I_C max. A	I_C Pulsed A	V_{CE} (Sat) V @ A	I_C A	h_{FE} min. @ A	I_C A	f_T min. (*typ.) MHz	P_{tot} @ 25°C W	Mfrs. List No.
NPN	12	3.0	10	0.35	3.0	400	3.0	150	1.0	ZTX688B
	17.5	4.0	20	0.245	4.0	300	1.0	150*	1.0	ZTX1048A
	20	3.0	8	0.5	2.0	400	2.0	150	1.0	ZTX689B
	20	3.5	10	0.255	3.5	300	0.2	100	1.0	ZTX618
	40	4.0	10	0.21	4.0	300	1.0	155*	1.0	ZTX1051A
	45	2.0	6	0.5	1.0	400	1.0	150	1.0	ZTX690B
	75	3.0	10	0.25	3.0	300	1.0	140*	1.0	ZTX1053A
	120	0.5	1	0.5	0.4	400	0.2	130	1.0	ZTX694B
	120	3.0	6	0.31	3.0	300	1.0	130*	1.0	ZTX1055A
	160	3.0	6	0.3	3.0	300	0.5	120*	1.0	ZTX1056A
PNP	12	4.0	20	0.235	4.0	250	0.5	115	1.0	ZTX1147A
	15	3.0	8	0.45	2.0	300	2.0	100	1.0	ZTX788B
	20	2.5	6	0.26	2.5	300	0.1	150	1.0	ZTX718
	25	3.0	8	0.45	2.0	200	2.0	100	1.0	ZTX789A
	25	3.0	10	0.2	3.0	250	0.5	135	1.0	ZTX1149A
	50	3.0	6	0.75	2.0	200	1.0	100	1.0	FZT790A
	75	2.0	4	0.5	1.0	250	0.5	100	1.0	ZTX792A

FOR PACKAGE AND PIN-OUT DETAILS, SEE PAGE 358

SD11

Order Multiple=5	Order Code	5+	25+	100+	1K+	5K+
Mfrs. List No.						
ZTX618	.663-232					
ZTX688B	.259-720					
ZTX689B	.358-319					
ZTX690B	.432-830					
ZTX694B	.358-320					
ZTX718	.663-244					
ZTX788B	.707-790					
ZTX789A	.506-515					
ZTX790A	.506-527					
ZTX792A	.506-424					
ZTX1048A	.663-268					
ZTX1051A	.663-270					
ZTX1053A	.541-953					
ZTX1055A	.541-965					
ZTX1056A	.541-977					
ZTX1147A	.935-440 †					
ZTX1149A	.935-451					

† Available until stocks are exhausted

TO-92, SOT-223 High Voltage

Characterised by breakdown voltages of 200V minimum, and power ratings from 1W to 2W.

	V_{CE0} max. V	I_C max. A	h_{FE} min. @ mA	I_C mA	V_{CE} (Sat) V @ mA	f_T min. (*typ.) MHz	P_{tot} W	Package and Pin Out	Mfrs.	Mfrs. List No.
300	0.5	25	30	0.5	20	50	1.0	TO-92(b)	ON	MPSW92
300	0.5	50	100	0.5	100	30	1.0	TO-92(e)	ZET	ZTX657
300	3.0	100	1000	0.25	3000	80*	1.2	TO-92(e)	ZET	ZTX857
400	0.2	100	50	0.5	50	50	1.0	TO-92(e)	ZET	—
400	0.3	100	50	0.5	50	50	1.0	TO-92(e)	ZET	ZTX558
400	0.5	40	200	0.5	100	50	1.0	TO-92(e)	ZET	ZTX458
400	0.5	40	200	0.5	100	50	1.0	TO-92(e)	ZET	ZTX658
500	0.15	80	50	0.5	50	60	2.0	SOT-223	ZET	—

FOR PACKAGE AND PIN-OUT DETAILS, SEE PAGE 358

SD266