

TABLE 13 : NPN/PNP HIGH VOLTAGE TRANSISTORS

The transistors shown in this table are designed for driving numerical indicator tubes, neon lamps and other applications requiring high voltage capability.

Type	V _{CBO} V	V _{CEO} V	Max I _C mA	Max V _{CE(sat)} at			h _{FE} at			Max I _{CBO} at		P _{tot} at T _{amb} = 25°C mW	Comple- ment
				V	I _C mA	I _B mA	Min	Max	I _C mA	μA	V _{CB} V		
NPN													
ZTX658	400	400	500	0.5	100	10	50	—	100	0.1	300	1000	ZTX758
ZTX458	400	400	500	0.5	50	6	100	300	50	0.1	320	1000	ZTX558
ZTX657§	300	300	500	0.5	100	10	50	—	100	0.1	200	1000	ZTX757
MPSA42§	300	300	500	0.5	20	2.0	40	—	10	0.1	200	680	MPSA92
BF393	300	300	500	2.0	20	2.0	40	—	10	0.1	200	625	BF493
BF392	250	250	500	2.0	20	2.0	40	—	10	0.1	200	625	BF492
ZTX656	200	200	500	0.5	100	10	50	—	100	0.1	160	1000	ZTX756
MPSA43	200	200	500	0.4	20	2.0	40	—	10	0.1	160	680	MPSA93
BF391	200	200	500	2.0	20	2.0	40	—	10	0.1	160	625	BF491
2N5551	180	160	600	0.2	50	5	80	250	10	0.05	120	350	2N5401
ZTX655§	150	150	1000	0.5	1000	200	50	—	500	0.1	125	1000	ZTX755
ZTX455§	160	140	1000	0.7	150	15	100	300	150	0.1	140	1000	ZTX555
2N5550	160	140	600	0.25	50	5	60	250	10	0.1	100	350	2N5400
ZTX654	125	125	1000	0.5	1000	200	50	—	500	0.1	100	1000	ZTX754
ZTX454	140	120	1000	0.7	150	15	100	300	150	0.1	120	1000	ZTX554
ZTX342	120	120	100	0.5	2	0.1	30	—	2	0.5	100	300	ZTX542
ZTX341	100	100	100	0.5	2	0.1	30	—	2	0.5	80	300	ZTX541
PNP													
ZTX758	400	400	500	0.5	100	10	50	—	100	0.1	300	1000	ZTX658
ZTX558	400	400	500	0.5	50	6	100	300	50	0.1	320	1000	ZTX458
BF493SP	350	350	500	2.0	20	2.0	40	—	10	0.005	250	625	—
ZTX757§	300	300	500	0.5	100	10	50	—	100	0.1	200	1000	ZTX657
ZTX557§	300	300	500	0.3	50	5	50	300	50	0.1	200	1000	—
MPSA92§	300	300	500	0.5	20	2.0	40	—	10	0.1	200	680	MPSA42
BF493	300	300	500	2.0	20	2.0	40	—	10	0.1	200	625	BF393
BF492	250	250	500	2.0	20	2.0	40	—	10	0.1	200	625	BF392
ZTX776	200	200	1000	0.5	1000	200	50	—	500	0.1	160	1000	—
ZTX576	200	200	1000	0.3	100	10	50	300	300	0.1	160	1000	—
ZTX756	200	200	500	0.5	100	10	50	—	100	0.1	160	1000	ZTX656
ZTX556	200	200	500	0.3	50	5	50	300	50	0.1	160	1000	—
MPSA93	200	200	500	0.4	20	2.0	40	—	10	0.1	160	680	MPSA43
BF491	200	200	500	2.0	20	2.0	40	—	10	0.1	160	625	BF391
2N5401	160	150	600	0.5	50	5	60	240	10	0.05	120	350	2N5551
ZTX755§	150	150	1000	0.5	1000	200	50	—	500	0.1	125	1000	ZTX655
ZTX555§	160	150	1000	0.3	100	10	50	300	300	0.1	140	1000	ZTX455
ZTX754	125	125	1000	0.5	1000	200	50	—	500	0.1	100	1000	ZTX654
ZTX554	140	125	1000	0.3	100	10	50	300	300	0.1	120	1000	ZTX454
2N5400	130	120	600	0.5	50	5	40	180	10	0.1	100	350	2N5550
ZTX542	120	120	100	0.5	2	0.1	30	—	2	0.5	100	300	ZTX342
ZTX541	100	100	100	0.5	2	0.1	30	—	2	0.5	80	300	ZTX341

§Available with centre collector lead form option. See centre collector section for details.

E-LINE TAPED PRODUCT

ZETEX SEMICONDUCTORS

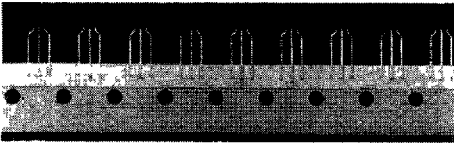
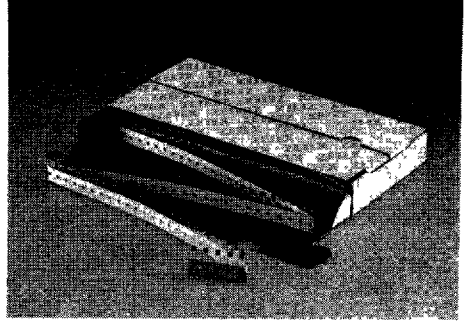
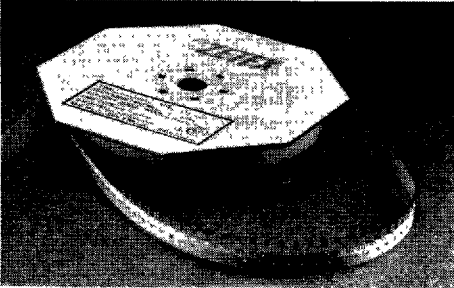
T-91-20

RADIAL TAPE FOR AUTOMATIC INSERTION

Two types are available.

(a) The tape, bearing the devices, is wound on a reel and supplied in a cardboard box.

(b) The tape, bearing the devices, is folded in a concertina (or Z) form and supplied in a cardboard box (ammo pack).

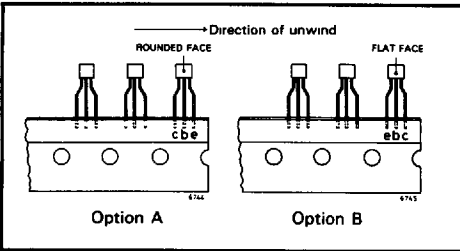


TAPE FEATURES

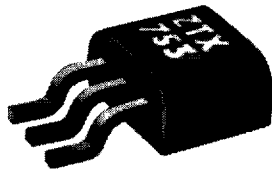
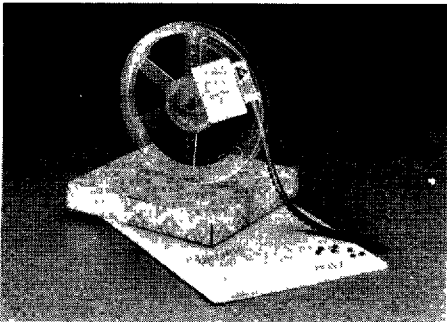
- Each reel or box contains 2000 devices.
- No more than 2 consecutive vacant spaces on the tape.
- Minimum of 5 vacant spaces at beginning and end of tape.
- Available with choice of orientation.

To order E-Line transistors on tape, the following format should be used.

- Suffix 'STO' for product taped and put on reels.
- Orientation (option A or B).
e.g. ZTX650 STO.A.
- Suffix 'STZ' for product taped and folded (ammo pack).



M1 IN TAPE FOR SURFACE MOUNTING



TAPE FEATURES

- 13" reel contains 3000 devices
- 7" reel contains 500 devices
- Devices contained in anti-static tape.

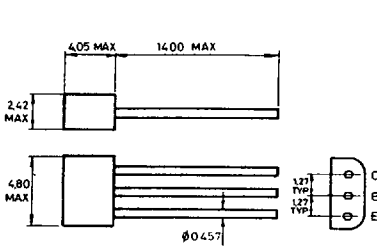
To order E-Line M1 transistors on tape.

- 7" reels - Suffix device type with M1TA
e.g. ZTX651 M1TA
- 13" reels - Suffix device type with M1TC
e.g. ZTX651 M1TC

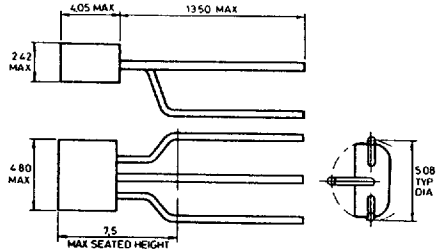


E-LINE (TO-92 STYLE) PACKAGE OUTLINES

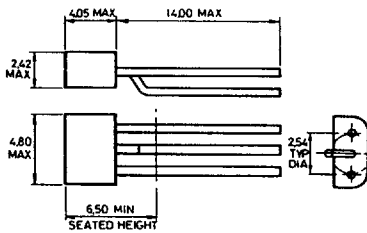
Devices can be ordered with the following lead configurations by adding the indicated suffix to the part number.



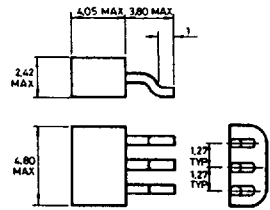
**STANDARD PACKAGE
BS 3934 SO-94**



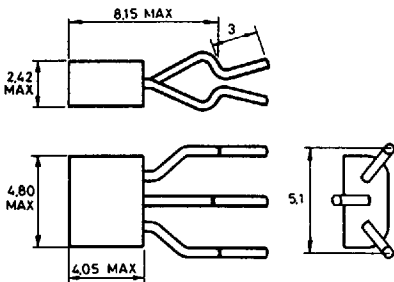
**SUFFIX 'K' LEAD FORMATION
for TO-5 and TO-39 compatibility
BS 3934 SO-95**



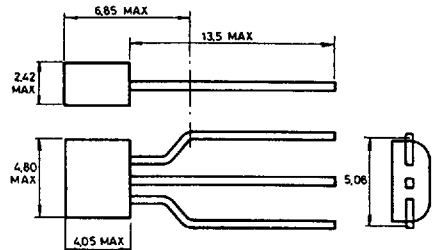
**SUFFIX 'L' LEAD FORMATION
for TO-18 compatibility
BS 3934 SO-97**



**SUFFIX 'M1' LEAD FORMATION
for flat mounting
BS 3934 SO-96**



**SUFFIX 'Q' LEAD FORMATION
(Lockfit)**



SUFFIX 'S' LEAD FORMATION

Dimensions in millimetres

The 'S' type lead formation is pin compatible with the popular TO-202 plastic power transistor.