

TABLE 5 : NPN LOW NOISE

ZETEX SEMICONDUCTORS

The transistors in this table are characterised for low noise, low level amplification and are ideally suited for audio pre-amplifiers as well as universal applications.

T-27-01

Type	V _{CEO} V	Max I _C mA	Max V _{CE(sat)} at			h _{FE} at			Min f _T at		Max. Noise Figure at			Complement
			V	I _C mA	I _B mA	Min	Max	I _C mA	MHz	I _C mA	N dB	I _C μA	f Hz	
BCY65EP	60	100	0.35	10	0.25	120	460	2	125	10	6	200	1k	BCY77P
2N5209	50	50	0.7	10	1	100	300	0.1	30	0.5	3	200	30 – 15k	2N5086
2N5210	50	50	0.7	10	1	200	600	0.1	30	0.5	2	200	30 – 15k	2N5087
ZTX331	45	500	0.7	10	0.5	40	120	0.01	30	0.5	3*	10	1k	ZTX531
BC550P	45	200	0.25	10	0.5	200	800	2	300*	10	3	200	30 – 15k	BC560P
ZTX382	45	200	0.25	10	0.5	100	850	2	150	10	6	200	30 – 15k	—
BCY59P	45	200	0.35	10	0.25	120	630	2	125	10	6	200	1k	BCY79P
BC414P	45	100	0.25	10	0.5	200	800	2	250*	10	3	200	30 – 15k	BC416P
2N3904	40	200	0.2	10	1	100	300	10	300	10	5	200	30 – 15k	2N3906
2N3903	40	200	0.2	10	1	50	150	10	250	10	6	200	30 – 15k	2N3905
BCY58P	32	200	0.35	10	0.25	120	630	2	125	10	6	200	1k	BCY78P
ZTX330	30	500	0.7	10	0.5	100	400	0.1	30	0.5	3*	10	1k	ZTX530
BC549P	30	200	0.25	10	0.5	200	800	2	300*	10	4	200	30 – 15k	BC559P
ZTX239	30	200	0.25	10	0.5	180	800	2	150	10	4	200	30 – 15k	ZTX214
ZTX383	30	200	0.25	10	0.5	100	850	2	150	10	6	200	30 – 15k	—
BC184P	30	200	0.25	10	0.5	250	—	2	150	10	4	200	30 – 15k	BC214P
ZTX384	30	200	0.25	10	0.5	250	—	2	150	10	4	200	30 – 15k	—
2N4123	30	200	0.3	50	5	50	150	2	250	10	6	200	30 – 15k	2N4125
BC413P	30	100	0.25	10	0.5	200	800	2	250*	10	3	200	30 – 15k	BC415P
ZTX109	30	100	0.1*	10	1	240	900	2	350*	10	4	10	1k	ZTX214
2N4124	25	200	0.3	50	5	120	360	2	300	10	5	20	30 – 15k	2N4126
BC109P	20	50	0.2	10	0.5	180	800	2	300	10	4	200	30 – 15k	BC179P
BC239P	20	50	0.2	10	0.5	180	800	2	150	10	4	200	30 – 15k	BC309P

*Typical.

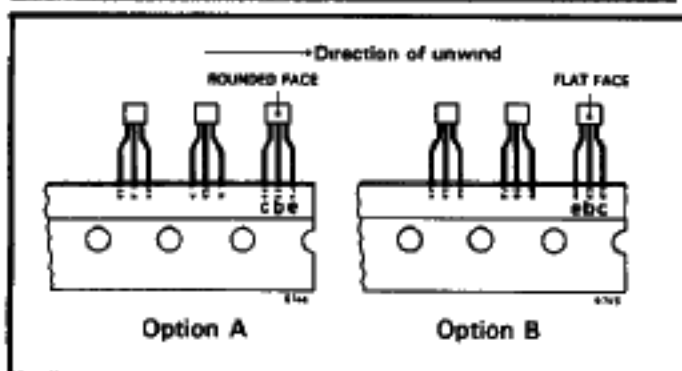
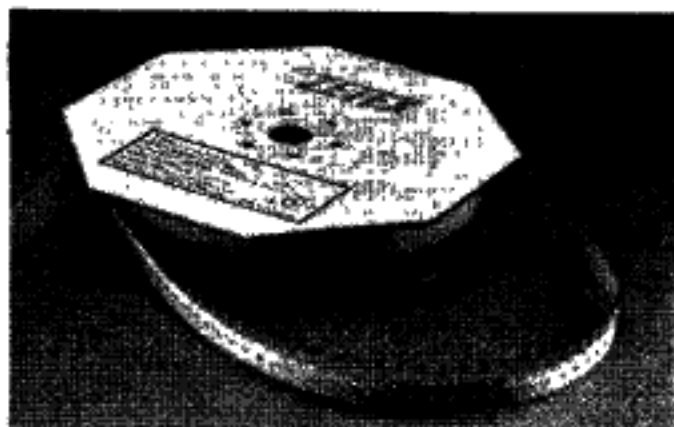
E-LINE TAPED PRODUCT

ZETEX SEMICONDUCTORS

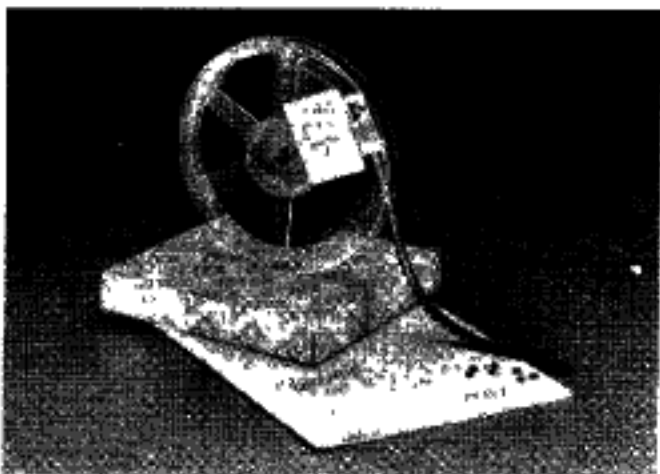
RADIAL TAPE FOR AUTOMATIC INSERTION

Two types are available.

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



M1 IN TAPE FOR SURFACE MOUNTING



(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.

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



TAPE FEATURES

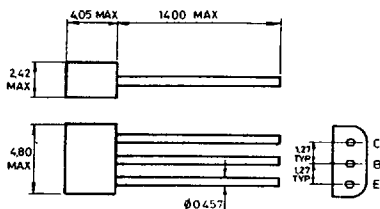
- 13" reel contains 3000 devices
- 7" reel contains 500 devices
- Devices contained in anti-static tape.

To order E-Line M1 transistors on tape.

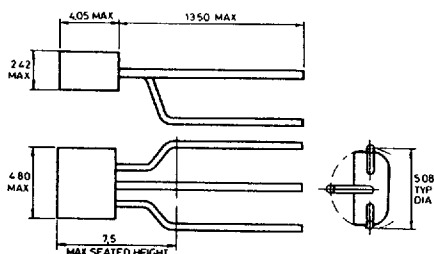
- (a) 7" reels - Suffix device type with M1TA
e.g. ZTX651 M1TA
(b) 13" reels - Suffix device type with M1TC
e.g. ZTX651 M1TC

E-LINE (TO-92 STYLE) PACKAGE OUTLINES

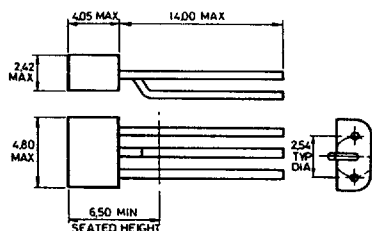
Devices can be ordered with the following lead configurations by adding the indicated suffix to the part number.



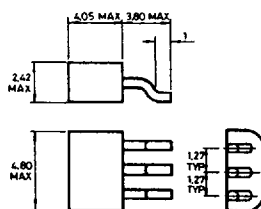
**STANDARD PACKAGE
BS 3934 SO-94**



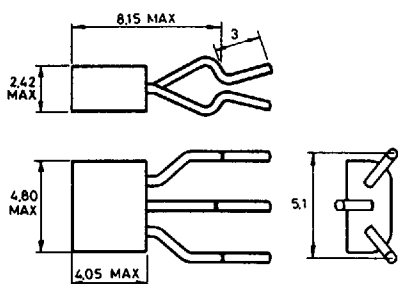
**SUFFIX 'K' LEAD FORMATION
for TO-5 and TO-39 compatibility
BS 3934 SO-95**



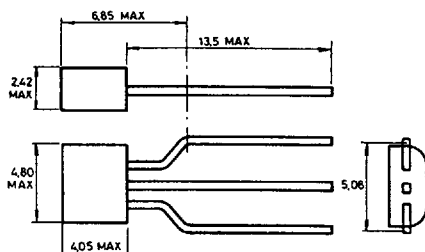
**SUFFIX 'L' LEAD FORMATION
for TO-18 compatibility
BS 3934 SO-97**



**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.