

FOR MORE DETAILED INFORMATION SEE LATEST ISSUE OF HANDBOOK SC04 OR DATA SHEET

SILICON PLANAR EPITAXIAL TRANSISTORS

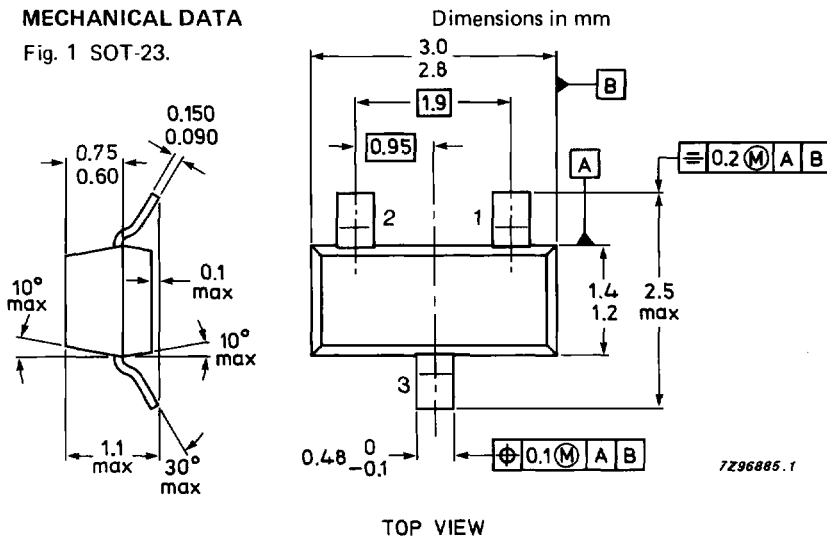
General purpose n-p-n transistors in a plastic SOT-23 package.

QUICK REFERENCE DATA

		BC846	BC847	BC848	
Collector-emitter voltage ($V_{BE} = 0$)	V_{CES} max.	80	50	30	V
Collector-emitter voltage (open base)	V_{CEO} max.	65	45	30	V
Collector current (peak value)	I_{CM} max.	200	200	200	mA
Total power dissipation up to $T_{amb} = 25^{\circ}\text{C}$	P_{tot} max.	250	250	250	mW
Junction temperature	T_j max.	150	150	150	$^{\circ}\text{C}$
DC current gain $I_C = 2\text{ mA}; V_{CE} = 5\text{ V}$	$h_{fe} >$	110	110	110	
	$h_{fe} <$	450	800	800	
Transition frequency at $f = 100\text{ MHz}$ $I_C = 10\text{ mA}; V_{CE} = 5\text{ V}$	$f_T >$	100	> 100	> 100	MHz
Noise figure at $R_S = 2\text{ k}\Omega$ $I_C = 200\text{ }\mu\text{A}; V_{CE} = 5\text{ V}$ $f = 1\text{ kHz}; B = 200\text{ Hz}$	F typ.	2	2	2	dB

MECHANICAL DATA

Fig. 1 SOT-23.

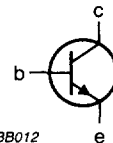


Marking code:

- BC846 = 1Dp
- BC846A = 1Ap
- BC846B = 1Bp
- BC847 = 1Hp
- BC847A = 1Ep
- BC847B = 1Fp
- BC847C = 1Gp
- BC848 = 1Mp
- BC848A = 1Jp
- BC848B = 1Kp
- BC848C = 1Lp

Pinning:

- 1 = base
- 2 = emitter
- 3 = collector



Reverse pinning types are available on request.