

SOT-23 Devices

Maximum die size 31 mil x 34 mil



CASE 318-07

Bipolar Transistors

General-Purpose Transistors

The following tables are a listing of small-signal general-purpose transistors in the SOT-23 surface mount packages. These devices are intended for small-signal amplification for DC, audio, and lower RF frequencies. They also have applications as oscillators and general-purpose, low voltage switches.

Pinout: 1-Base, 2-Emitter, 3-Collector

Devices are listed in order of descending breakdown voltage.

Device	Marking	$V_{(BR)CEO}$	$h_{FE} @ I_C$			f_T MHz Min
			Min	Max	mA	

NPN

MMBT8099LT1	KB	80	100	300	1.0	150
<i>BC846ALT1</i>	1A	65	110	220	2.0	100
<i>BC846BLT1</i>	1B	65	200	450	2.0	100
BC817-16LT1	6A	45	100	250	100	200
BC817-25LT1	6B	45	160	400	100	200
BC817-40LT1	6C	45	250	600	100	200
<i>BC847ALT1</i>	1E	45	110	220	2.0	100
<i>BC847BLT1</i>	1F	45	200	450	2.0	100
<i>BC847CLT1</i>	1G	45	420	800	2.0	100
<i>MMBT2222ALT1</i>	1P	40	100	300	150	200
<i>MMBT3904LT1</i>	1AM	40	100	300	10	200
<i>MMBT4401LT1</i>	2X	40	100	300	150	250
<i>BC848ALT1</i>	1J	30	110	220	2.0	100
<i>BC848BLT1</i>	1K	30	200	450	2.0	100
<i>BC848CLT1</i>	1L	30	420	800	2.0	100

PNP

MMBT8599LT1	2W	80	100	300	1.0	150
<i>BC856ALT1</i>	3A	65	125	250	2.0	100
<i>BC856BLT1</i>	3B	65	220	475	2.0	100
<i>MMBT2907ALT1</i>	2F	60	100	300	150	200
BC807-16LT1	5A	45	100	250	100	200
<i>BC807-25LT1</i>	5B	45	160	400	100	200
<i>BC807-40LT1</i>	5C	45	250	600	100	200
<i>BC857ALT1</i>	3E	45	125	250	2.0	100
<i>BC857BLT1</i>	3F	45	220	475	2.0	100
<i>MMBT3906LT1</i>	2A	40	100	300	10	250
<i>MMBT4403LT1</i>	2T	40	100	300	150	200
<i>BC858ALT1</i>	3J	30	125	250	2.0	100
<i>BC858BLT1</i>	3K	30	220	475	2.0	100
<i>BC858CLT1</i>	3L	30	420	800	2.0	100

See Packaging Information under Technical Data Section for reel size, quantity and ordering information.

Devices listed in bold, italic are Motorola preferred devices.