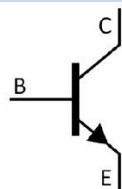


Silicon NPN transistor in a SOT-23 Plastic Package.

High f_T , low collector to base time constant, low output capacitance.

For use as UHF oscillator and a UHF mixer in a tuner of a TV receiver.

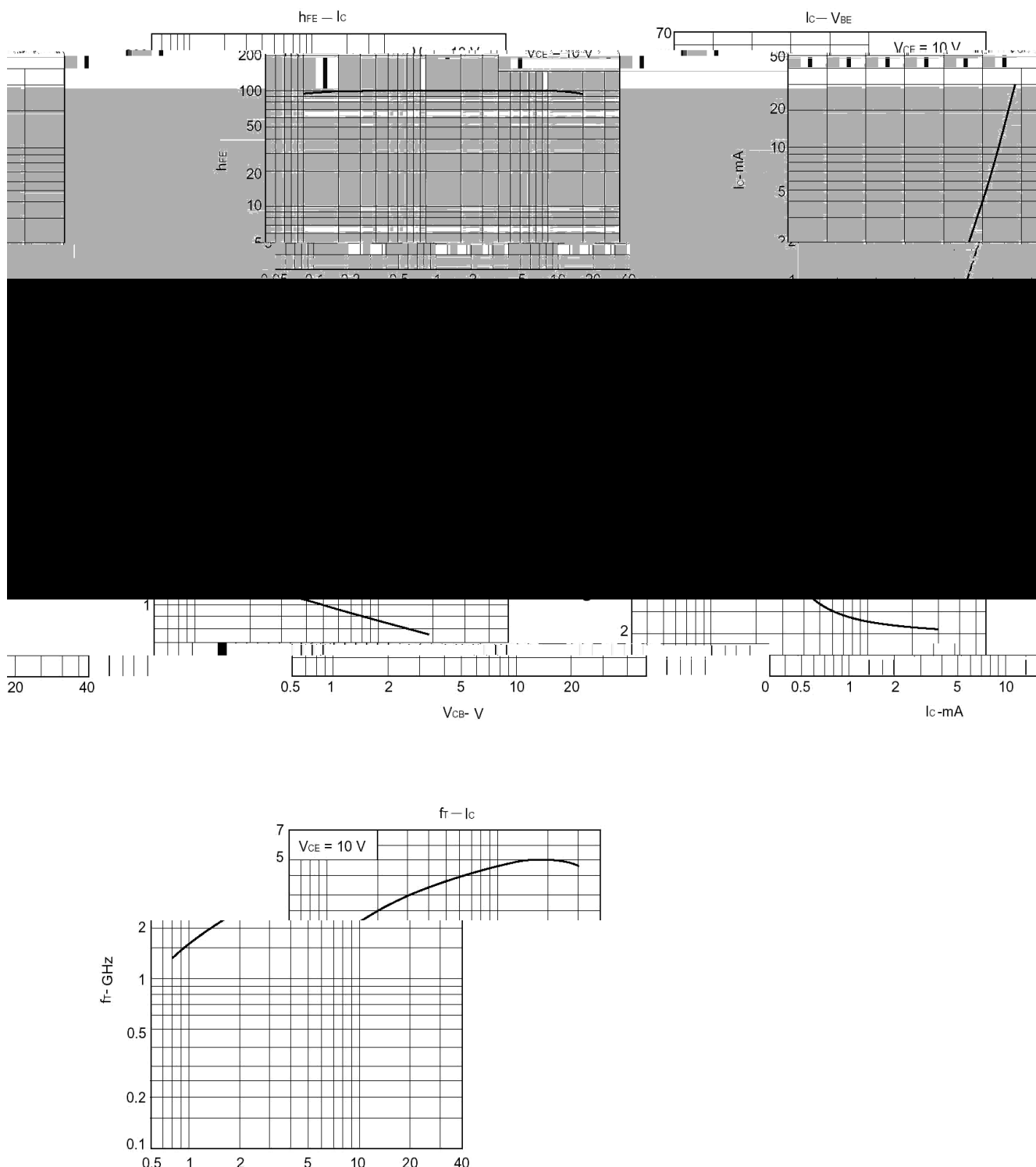


PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Classifications Symbol	P	Q	R
h_{FE} Range	40~80	60~120	100~200
Marking	HT62	HT63	HT64

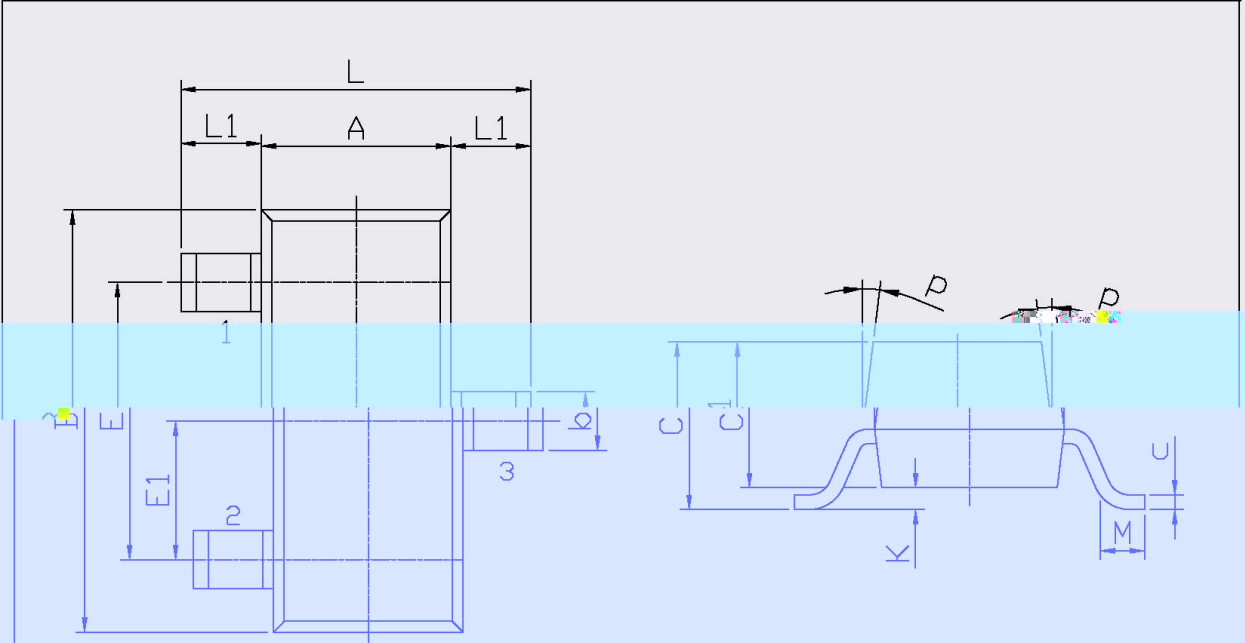
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	25	V
Collector to Emitter Voltage	V_{CEO}	12	V
Emitter to Base Voltage	V_{EBO}	3.0	V
Collector Current	I_C	30	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=10V$ $I_E=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=10V$ $I_C=5.0mA$	40	100	200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA$ $I_B=1.0mA$		0.09	0.5	V
Transition Frequency	f_T	$V_{CE}=10V$ $I_E=-5.0mA$	2.5	4.0		GHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$		0.85	1.5	pF
Collector to Base Time Constant	$C_C \cdot r_{bb'}$	$V_{CE}=10V$ $I_E=-5.0mA$ $f=31.9MHz$		4.0	10	ps



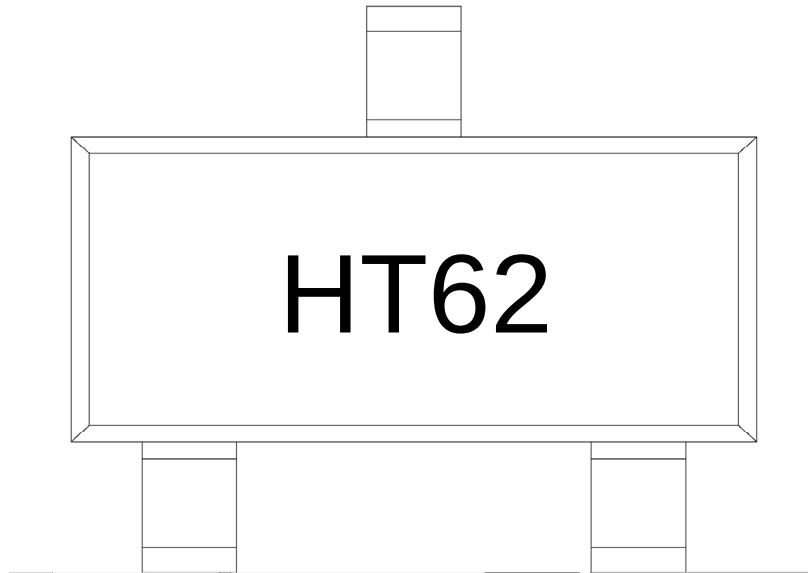
SOT-23

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	P1	0.35	0.50

A	1.15	1.50	C	0.05	0.20
R	2.70	3.30			



Note:

Company Code

Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)

