

DESCRIPTION

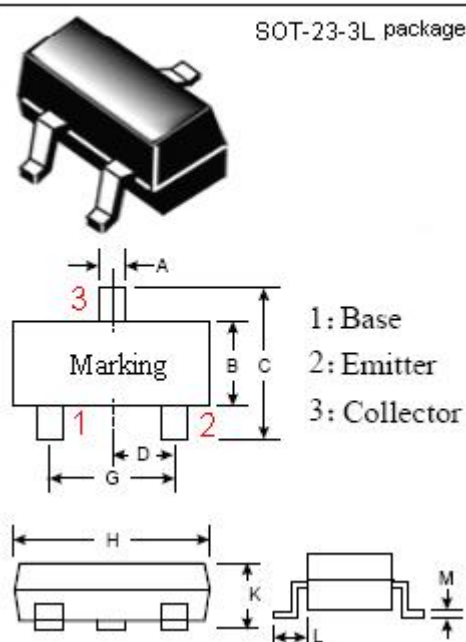
- Low Noise
- High Current-Gain Bandwidth Product
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in VHF RF amplifier, local oscillator, mixer.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	15	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	50	mA
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	0.15	W
T_J	Junction Temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~125	$^{\circ}\text{C}$



DIM	mm	
	MIN	MAX
A	0.30	0.40
B	1.50	1.70
C	2.65	2.95
D	0.95	
G	1.80	2.00
H	2.82	3.02
K	1.05	1.25
L	0.70	
M	0.10	0.20

isc Silicon NPN RF Transistor

2SC2757

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10mA ; I _B = 1mA			0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 12V; I _E = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 5mA ; V _{CE} = 10V	60		240	
f _T	Current-Gain—Bandwidth Product	I _C = 5mA ; V _{CE} = 10V	800	1100		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz			1.5	pF
τ _{bb'} • CC	Base Time Constant	I _C = 5mA ; V _{CB} = 10V;f= 31.9MHz		10	15	ps

◆ h_{FE} Classifications

Marking	T32	T33	T34
h _{FE}	60-120	90-180	120-240

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