

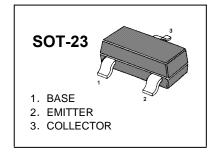


TRANSIST OR (NPN)

FEATURES

AM/FM Amplifier, Local Oscillator of FM/VHF Tuner

High Current Gain Bandwidth Product f_T=1.1 GHz (Typ)



MARKING : T33

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	15	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current -Continuous	50	mA
Pc	Collector Power Dissipation	150	mW
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	ĉ

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	ТҮР	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	15			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =12V, I _E =0			0.05	μA
Collector cut-off current	I _{CEO}	V _{CE} =12V, I _B =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 3V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V_{CE} =5V, I_{C} = 1mA	105		195	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =10mA, I _B = 1mA			0.5	V
Base-emitter saturation voltage	V _{BE} (sat)	$I_C=10mA$, $I_B=1mA$			1.4	V
Transition frequency	f⊤	V _{CE} =5V, I _C = 5mA f=400MHz	600			MHz



Ic[mA], COLLECTOR CURRENT

2SC2757



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VCE[V], COLLECTOR-EMITTER VOLTAGE

6 7 8

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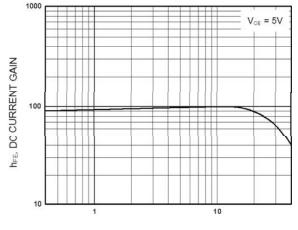
2 3

Typical Characteristics

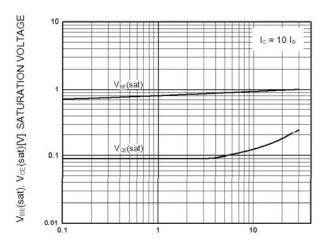
I_B = 40μA | I_B = 30μA

> = 20μA | = 10μA

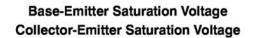
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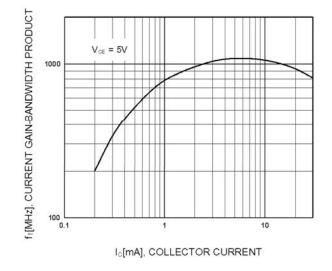


Ic[mA], COLLECTOR CURRENT









Current Gain Bandwidth Product

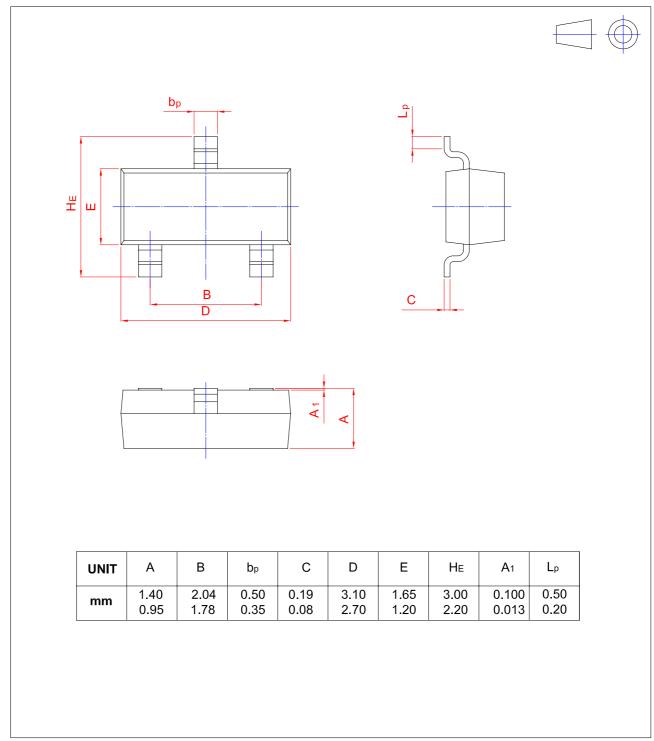


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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads





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