

DESCRIPTION

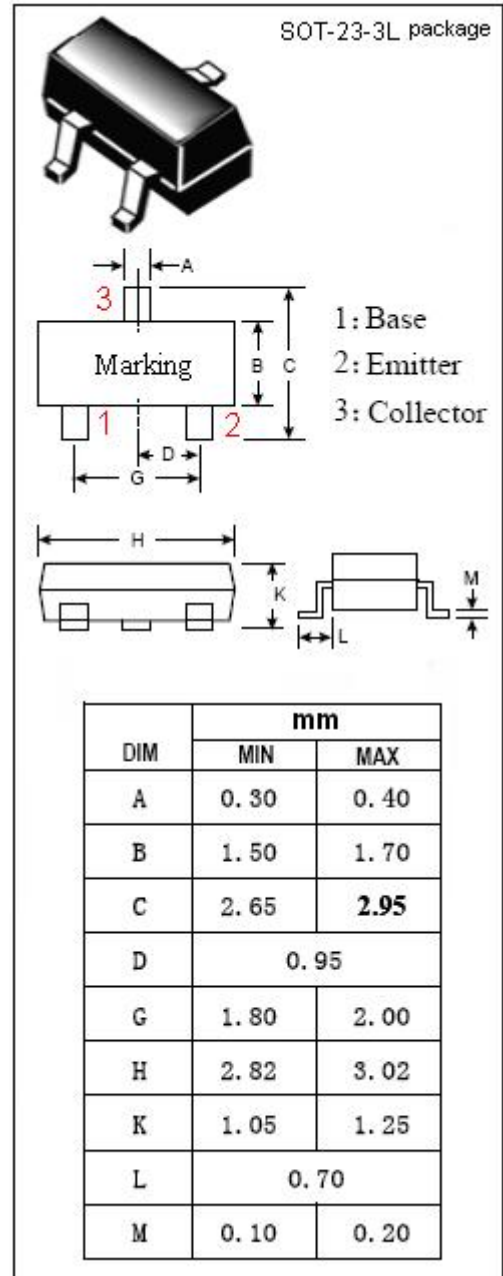
- Silicon NPN epitaxial type
- Local oscillator wide band amplifier
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in UHF/VHF frequency converters

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	3	V
I _c	Collector Current-Continuous	50	mA
P _c	Collector Power Dissipation @T _c =25°C	0.15	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



isc Silicon NPN Transistor

2SC2736

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10mA ; I _B = 5mA			0.7	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 15V; I _E = 0			0.5	μ A
h _{FE}	DC Current Gain	I _C = 5mA ; V _{CE} = 10V	30		200	
f _T	Current-Gain—Bandwidth Product	I _C = 5mA ; V _{CE} = 10V		2300		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f= 1.0MHz			1.0	pF
CG-1	Conversion Gain	V _{CC} =12V, I _C =2mA; f=200MHz; f _{osc} =230MHz;		22.5		dB
CG-2	Conversion Gain	V _{CC} =12V, I _C =2mA; f=900MHz; f _{osc} =930MHz; f _{out} =30MHz		10		dB
NF	Noise Figure	V _{CC} =12V, I _C =2mA; f=200MHz; f _{osc} =230MHz;		4		dB

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