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JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Transistors

S9012LT1 TRANSISTOR (PNP)

FEATURES

Power dissipation

 $P_{CM:}$ 0.3 W (Tamb=25°C)

Collector current

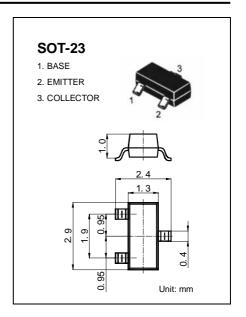
I_{CM:} -0.5 A

Collector-base voltage

 $V_{(BR)CBO}$: -40 V

Operating and storage junction temperature range

 T_J , T_{stg} : -55°C to +150°C



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	Ic= -100µA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	Ic= -1mA, I _B =0	-25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μΑ, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-40 V, I _E =0			-0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} =-20V, I _B =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	μΑ
DC current gain	h _{FE(1)}	V_{CE} =-1V, I_{C} = -50mA	120		400	
	h _{FE(2)}	V _{CE} =-1V, I _C =-500mA	40			
Collector-emitter saturation voltage	V _{CE} (sat)	I_{C} =-500 mA, I_{B} = -50mA	_	_	-0.6	V
Base-emitter saturation voltage	V _{BE} (sat)	I_{C} =-500 mA, I_{B} = -50mA			-1.2	V
Transition frequency	f⊤	V _{CE} =-6V, I _C = -20mA f=30MHz	150			MHz

CLASSIFICATION OF h_{FE(1)}

Rank	L	Н	J	
Range	120-200	200-350	300-400	

DEVICE MARKING	S9012LT1=2T1
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