

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD

SOT-23 Plastic-Encapsulate Transistors

\$9012LT1 TRANSISTOR (PNP)

FEATURES

Power dissipation

 P_{CM} : 0.3 W (Tamb=25)

Collector current

I_{CM} : -0.5 A

Collector-base voltage

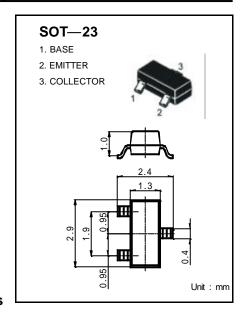
 $V_{(BR)CBO}$: -40 V

Operating and storage junction temperature range

 T_J , T_{stg} : -55 to +150

ELECTRICAL CHARACTERISTICS (Tamb=25

unless



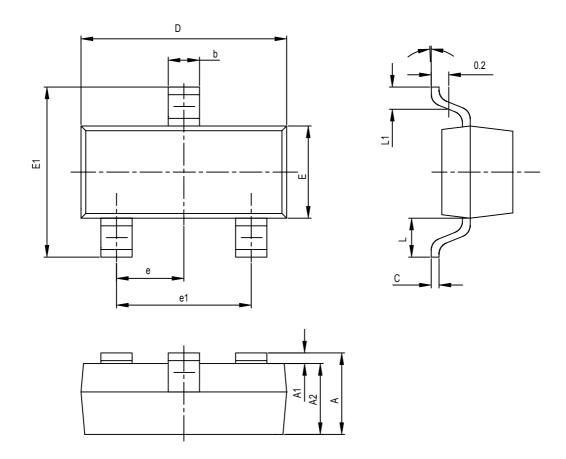
otherwise specified)										
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT				
Collector-base breakdown voltage	V _{(BR)CBO}	lc= -100 μ A , l _E =0	-40			V				
Collector-emitter breakdown voltage	V _{(BR)CEO}	Ic= -1mA , I _B =0	-25			V				
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100 μ A , 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 automat main	h _{FE(1)}	V _{CE} =-1V, I _C = -50m A	120		350					
DC current gain	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, b = -20mA f =30MHz	150			MHz				

CLASSIFICATION OF he(1)

527(55)1 157(115)1 G. 1FE(1)							
Rank	L	Н					
Range	120-200	200-350					

DEVICE MARKING: S9012LT1=2T1

SOT-23 PACKAGE OUTLINE DIMENSIONS



O-make al	Dimensions I	n Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950TPY		0.037TPY		
e1	1.800	2.000	0.071	0.079	
L	0.550REF		0.022REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	