

Features

Collector Current: I_C=0.15A

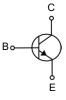
• Power Dissipation of 150mW



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Qty(PCS)		
2SC2712	SOT-23	3000		



Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _c	150	mA
Collector Power Dissipation	P _c	150	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55∼+150	°C

Classifiction Of hFE

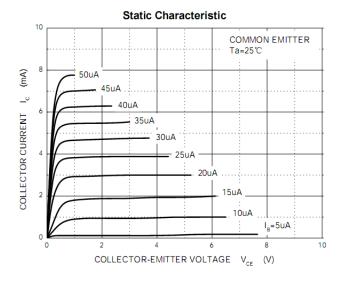
Rank	0	Y	GR	BL
Range	70-140	120-240	200-400	350-700
Marking	LO	LY	LG	LL

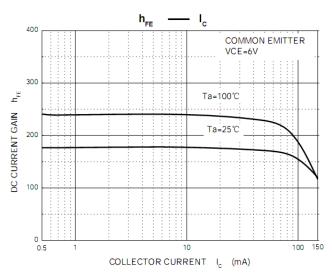


Electrcal Charcteristics (Ta=25 unless otherwise specified)

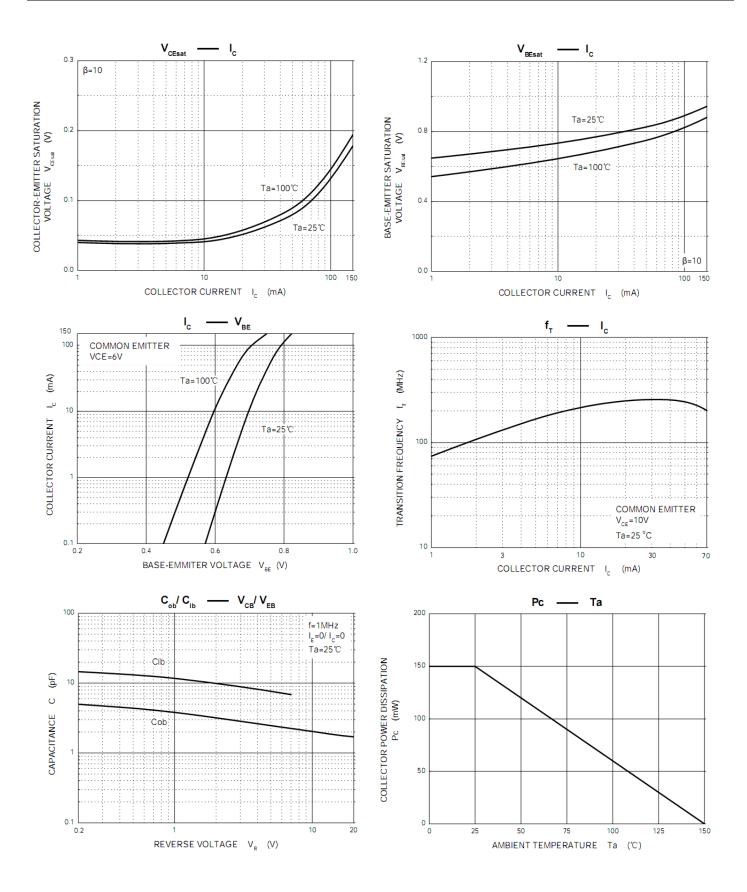
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	60			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA ,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 60 V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =6V, I _C =10mA	70		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 100mA, I _B =10mA		0.1	0.25	V
Transition frequency	f⊤	V _{CE} =10V, I _C = 1mA	80			MHz
Output capacitance	C _{ob}	V _{CB} =10V, I _E =0,f=1 MHz		2.0	3.5	pF
Noise Figure	NF	V_{CE} =6V, I_{C} =0.1mA, f =1kHz, Rg=10k Ω		1.0	10	dB

Typical Characteristics



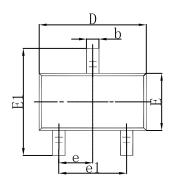


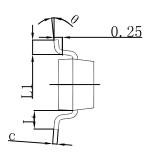


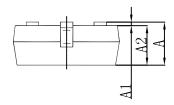




SOT-23 Package Outline Dimensions

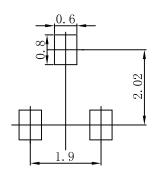






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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