Features

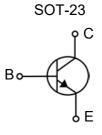
Collector Power Dissipation: 200mW

Collector Current: Ic = 150mA



Package Marking and Ordering Information

Product ID	D Pack Marking		Qty(PCS)	
H2SC2412	SOT-23	BQ/BR/BS	3000	



Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	150	mA
Pc	Collector Power Dissipation	150	mW
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55∼+150	$^{\circ}$ C

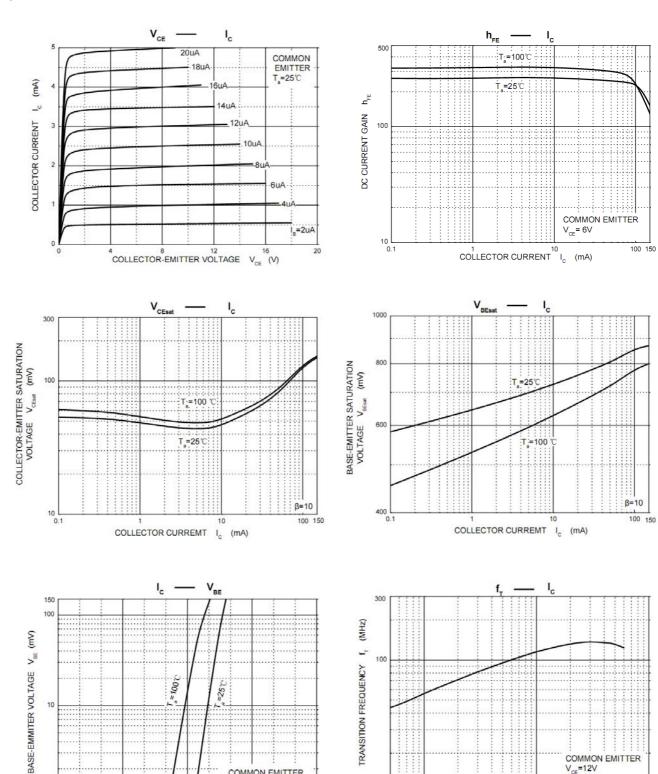
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μΑ,I _E =0	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1$ mA, $I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =50μA,I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB}=7V,I_{C}=0$			0.1	μΑ
DC current transfer ratio	h _{FE}	V _{CE} =6V,I _C =1mA	120		560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =50mA,I _B =5mA			0.4	V
Transition frequency	f _T	V_{CE} =12V, I_{C} =2mA, f=100MHz		180		MHz
Output capacitance	C _{ob}	V _{CB} =12V,I _E =0, f=1MHz			3.5	pF

Classifiction Of hFE

Rank	H2SC2412KT146Q	H2SC2412KT146R	H2SC2412KT146S	
Range	120-270	180-390	270-560	
Marking	BQ	BR	BS	

Typical Characteristics



COMMON EMITTER V_{CE}=6V

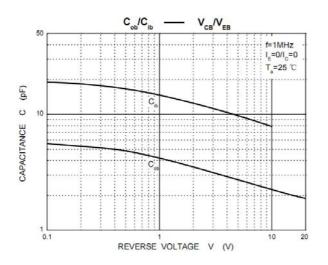
1200

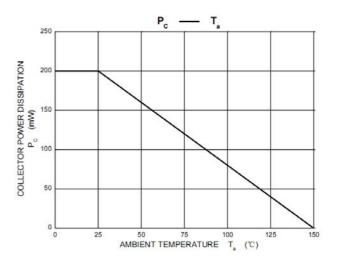
300 600 900 COLLECTOR CURRENT I_C (mA)

COMMON EMITTER V_{CE}=12V

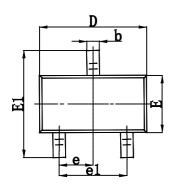
T_=25℃

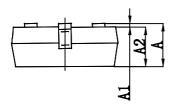
COLLECTOR CURRENT

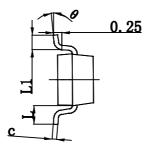




SOT-23 Package Outline Dimensions







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°	



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