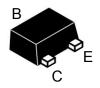


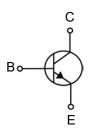
Features

Collector Power Dissipation: 100mW

Collector Current: Ic = 150mA



SOT-723



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2SC5658T2LQ	SOT-723	BR	8000

Maximum Ratings (Ta=25°C unless otherwise noted)

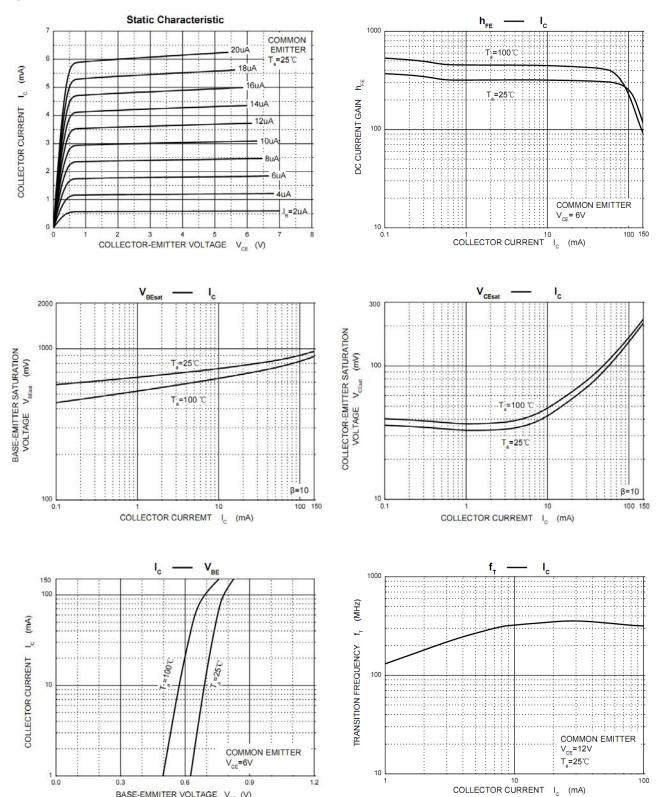
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current	150	mA
Pc	Collector Power Dissipation	100	mW
T _J ,T _{stg}	Operation Junction And Storage Temperature Range	-55∼+150	°C

Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_{C}=50\mu A, I_{E}=0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA,I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =50μΑ,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	180		390	
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

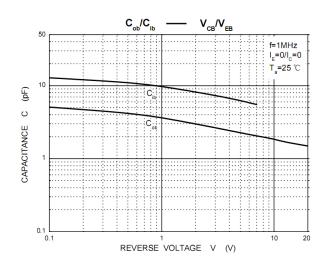


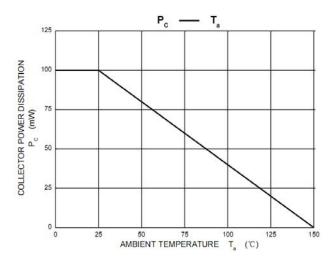
Typical Characteristics



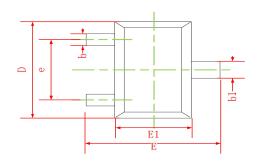
BASE-EMMITER VOLTAGE V_{BE} (V)

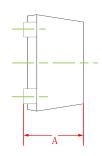


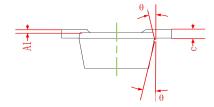




SOT-723 Package Outline Dimensions







	Dimensions In Millimeters		
Symbol	Min.	Max.	
A	0.430	0.500	
A1	0.000	0.050	
b	0.170	0.270	
b1	0.270	0.370	
С	0.080	0.150	
D	1.150	1.250	
E	1.150	1.250	
E1	0.750	750 0.850	
е	0.800TYP.		
θ	7° REF.		



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