



Micro Commercial Components



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2SC5658-Q
2SC5658-R
2SC5658-S

Features

- Halogen free available upon request by adding suffix "-HF"
- Complement to 2SA2029
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	50	V
V _{CBO}	Collector-Base Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	150	mA
P _C	Collector Dissipation	100	mW
T _J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

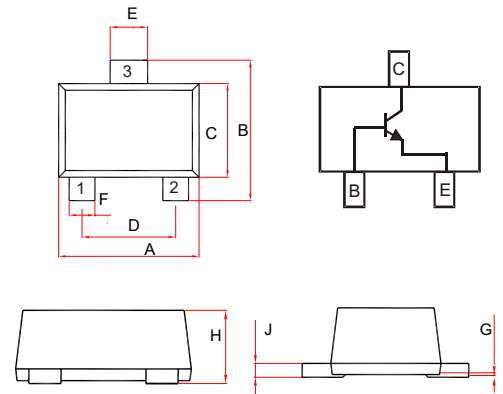
Symbol	Parameter	Min	Typ	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =1mA _{dc} , I _E =0)	50	---	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =50μA _{dc} , I _E =0)	60	---	---	Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =50μA _{dc} , I _C =0)	7	---	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =60Vdc, I _E =0Vdc)	---	---	0.1	μA _{dc}
I _{EBO}	Emitter Cutoff Current (V _{EB} =7Vdc, I _C =0Vdc)	---	---	0.1	μA _{dc}
h _{FE}	DC Current Gain (I _C =1mA _{dc} , V _{CE} =6Vdc)	120	---	560	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =50mA _{dc} , I _E =5mA _{dc})	---	---	0.4	Vdc
f _T	Transition Frequency (V _{CE} =12Vdc, I _C =2mA _{dc} , f=100MHz)	---	180	---	MHz
C _{ob}	Output Capacitance (V _{CB} =12Vdc, f=1.0MHz, I _E =0)	---	---	3.5	pF

Classification OF h_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

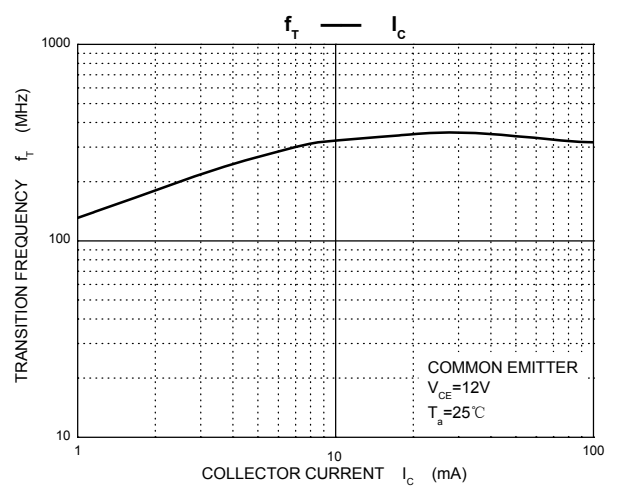
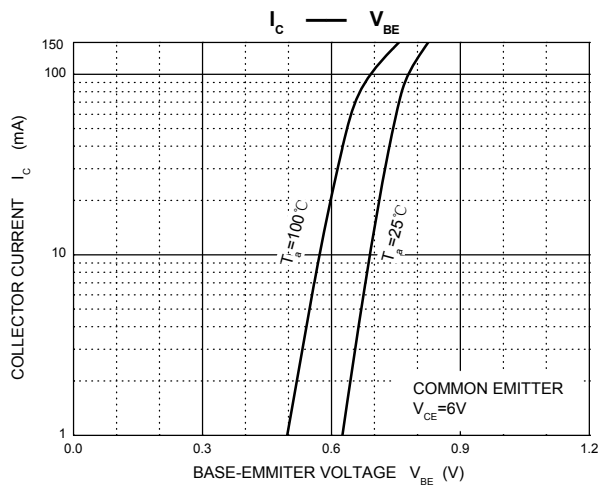
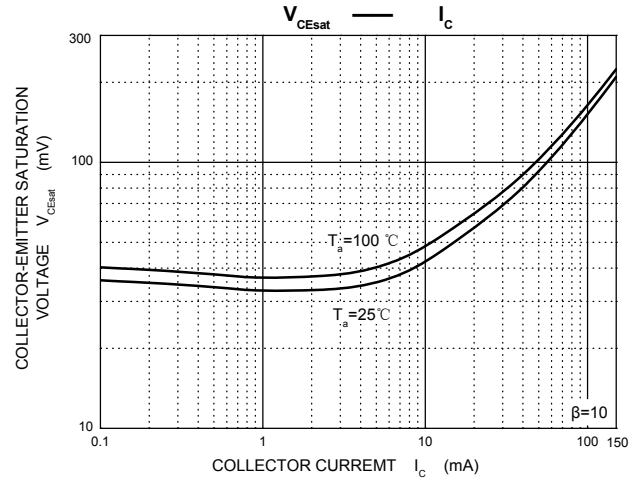
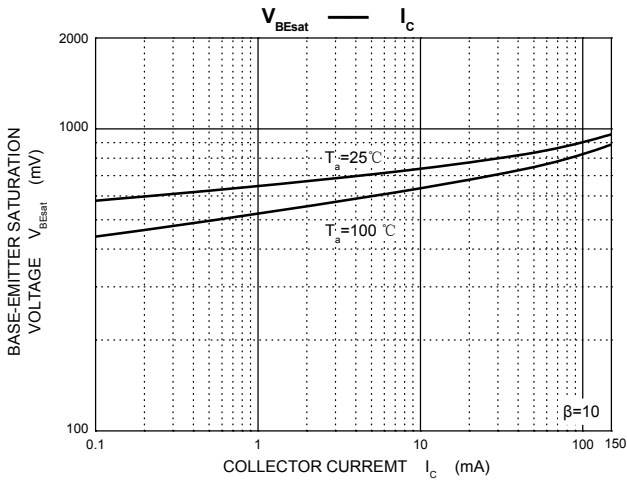
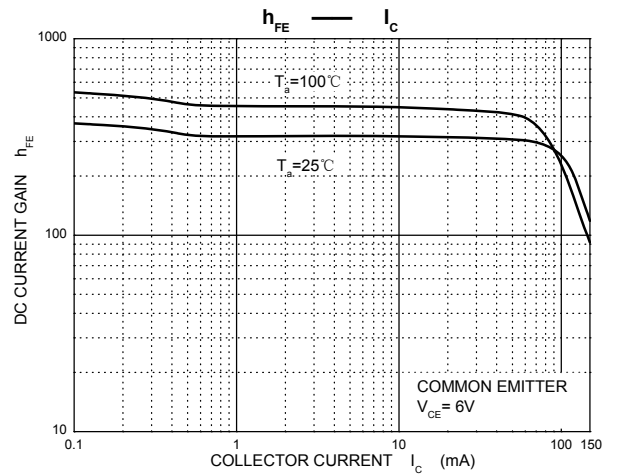
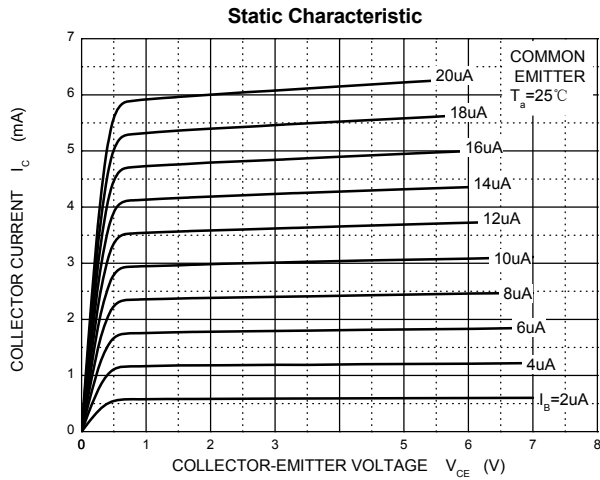
NPN
General Purpose
Transistors

SOT-723

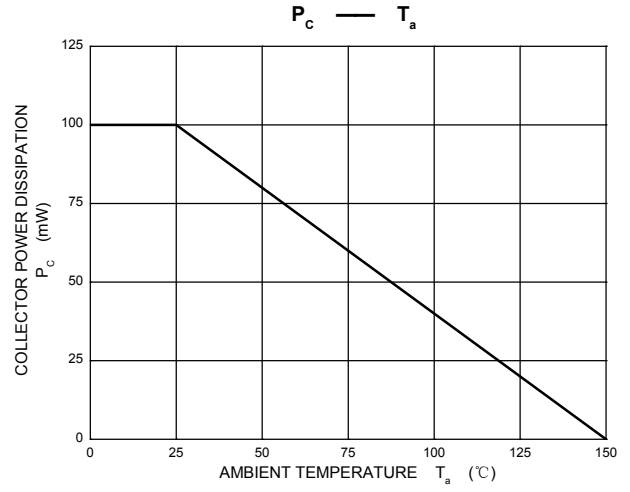
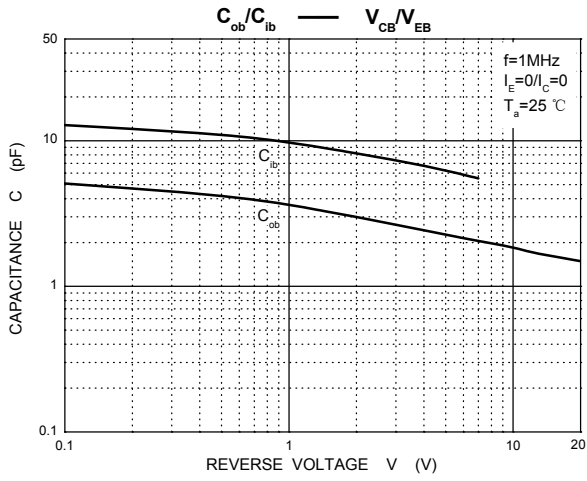


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.045	.049	1.15	1.25	
B	.045	.049	1.15	1.25	
C	.030	.033	0.75	0.85	
D	.031TYP.		0.80TYP.		
E	.011	.015	0.27	0.37	
F	.007	.011	0.17	0.27	
G	.000	.002	.000	.050	
H	.017	.020	0.43	0.50	
J	.003	.006	.080	.150	

Typical Characteristics



Typical Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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