Elektronische Bauelemente

2SC5658-C

0.15A , 60V

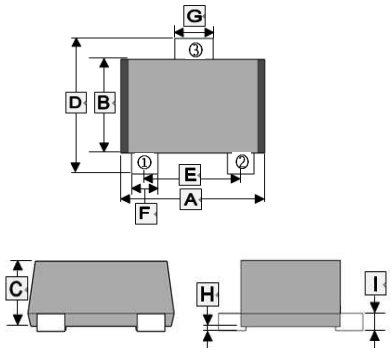
NPN Plastic Encapsulated Transistor

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURE

- Low Current (Max. 150mA)
- Low Voltage

SOT-723



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.150	1.250	F	0.170	0.270
B	0.750	0.850	G	0.270	0.370
C	-	0.500	H	0	0.050
D	1.150	1.250	I	-	0.150
E	0.800TYP.				

CLASSIFICATION OF h_{FE}

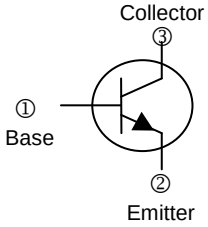
Product-Rank	2SC5658-Q-C	2SC5658-R-C	2SC5658-S-C
Range	120~270	180~390	270~560
Marking	BQ	BR	BS

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-723	8K	7 inch

ORDER INFORMATION

Part Number	Type
2SC5658-Q-C	Lead (Pb)-free and Halogen-free
2SC5658-R-C	
2SC5658-S-C	



ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current-Continuous	I_C	150	mA
Collector Power Dissipation	P_C	100	mW
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	I_C=50μA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	I_C=1mA, I_B=0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	7	-	-	V	I_E=50μA, I_C=0
Collector Cut-off Current	I_{CBO}	-	-	0.1	μA	V_{CB}=60V, I_E=0
Emitter Cut-off Current	I_{EBO}	-	-	0.1	μA	V_{EB}=7V, I_C=0
DC Current Gain	h_{FE}	120	-	560		V_{CE}=6V, I_C=1mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.4	V	I_C=50mA, I_B=5mA
Transition Frequency	f_T	-	180	-	MHz	V_{CE}=12V, I_C=2mA, f=100MHz
Collector Output Capacitance	C_{ob}	-	-	3.5	pF	V_{CB}=12V, I_E=0, f=1MHz

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CHARACTERISTIC CURVES