Elektronische Bauelemente

2SC2668

0.02A , 40V

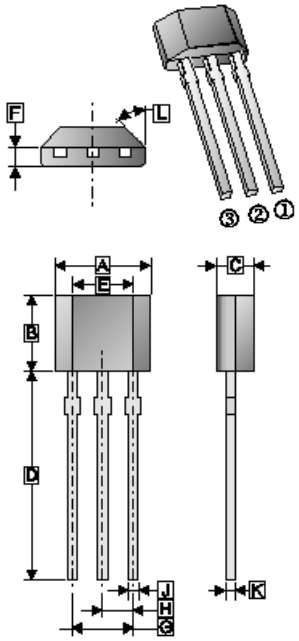
NPN Plastic-Encapsulated Transistor

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

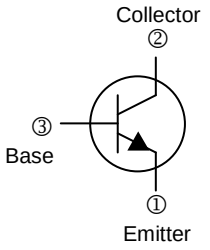
FEATURES

- Small Reverse Transfer Capacitance.
- Low Noise Figure.

TO-92S



REF.	Millimeter	
	Min.	Max.
A	3.90	4.10
B	3.05	3.25
C	1.42	1.62
D	15.1	15.5
E	2.97	3.27
F	0.66	0.86
G	2.44	2.64
H	1.27 REF.	
J	0.36	0.48
K	0.36	0.51
L	45°	



CLASSIFICATION OF h_{FE}

Product-Rank	2SC2668-R	2SC2668-O	2SC2668-Y
Range	40~80	70~140	100~200

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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	4	V
Collector Current - Continuous	I_C	20	mA
Collector Power Dissipation	P_C	200	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 Condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	40	-	-	V	I_C=100μA, I_E=0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	I_C=1mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	4	-	-	V	I_E=100μA, I_C=0
Collector Cut–Off Current	I_{CBO}	-	-	0.5	μA	V_{CB}=40V, I_E=0
Emitter Cut–Off Current	I_{EBO}	-	-	0.5	μA	V_{EB}=4V, I_C=0
DC Current Gain	h_{FE}	40	-	200		V_{CE}=6V, I_C=1mA
Reverse Transfer Capacitance	C_{re}	-	0.7	-	pF	V_{CE}=6V, f=1MHz
Collector-Base Time Constant	$C_C \cdot r_{bb}$	-	-	30	pS	V_{CE}=6V, I_E= -1mA, f=30MHz
Transition Frequency	f_T	-	550	-	MHz	V_{CE}=6V, I_C=1mA
Power Gain	Gpe	-	18	-	dB	V_{CC}=6V, I_C=1mA, f=100MHz
Noise Figure	NF	-	-	5	dB	

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CHARACTERISTIC CURVES