Elektronische Bauelemente

2SC1923

0.02 A , 40 V

NPN Plastic Encapsulated Transistor

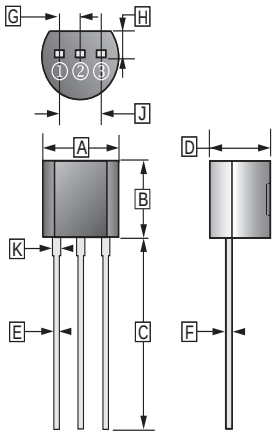
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- General Purpose Switching and Amplification

TO-92

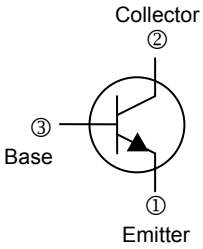


①Emitter
②Collector
③Base

REF.	Millimeter	
	Min.	Max.
A	4.40	4.70
B	4.30	4.70
C	12.70	-
D	3.30	3.81
E	0.36	0.56
F	0.36	0.51
G	1.27 TYP.	
H	1.10	-
J	2.42	2.66
K	0.36	0.76

CLASSIFICATION OF h_{FE}

Product-Rank	2SC1923-R	2SC1923-O	2SC1923-Y
Range	40~80	70~140	100~200



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C 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	100	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	1250	°C / W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	40	-	-	V	I_C=0.1mA, 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=0.1mA, I_C=0
Collector Cut – Off Current	I_{CBO}	-	-	0.5	μA	V_{CB}=18V, 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
Transition Frequency	f_T	-	550	-	MHz	V_{CE}=6V, I_C=1mA