

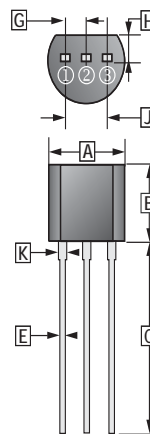
RoHS Compliant Product

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

### FEATURES

- High Breakdown Voltage
- High Current
- Low Saturation Voltage

TO-92

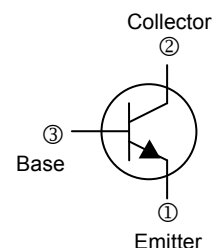


① Emitter  
② Collector  
③ Base

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 $h_{FE(1)}$

Product-Rank	2SC2274-D	2SC2274-E	2SC2274-F
Range	60~120	100~200	160~320



### ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	60	V
Collector to Emitter Voltage	$V_{CEO}$	50	V
Emitter to Base Voltage	$V_{EBO}$	5	V
Collector Current - Continuous	$I_C$	0.5	A
Collector Power Dissipation	$P_C$	600	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	208	$^\circ\text{C} / \text{W}$
Junction, Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	$I_C=0.01\text{mA}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=0.01\text{mA}, I_C=0$
Collector Cut - Off Current	$I_{CBO}$	-	-	1	$\mu\text{A}$	$V_{CB}=40\text{V}, I_E=0$
Emitter Cut - Off Current	$I_{EBO}$	-	-	1	$\mu\text{A}$	$V_{EB}=4\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	60	-	320		$V_{CE}=5\text{V}, I_C=50\text{mA}$
	$h_{FE(2)}$	35	-	-		$V_{CE}=5\text{V}, I_C=400\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.6	V	$I_C=400\text{mA}, I_B=40\text{mA}$
Base to Emitter voltage	$V_{BE(sat)}$	-	-	1.2	V	$I_C=400\text{mA}, I_B=40\text{mA}$
Transition Frequency	$f_T$	-	120	-	MHz	$V_{CE}=10\text{V}, I_C=10\text{mA}$
Collector Output Capacitance	$C_{ob}$	-	5	-	pF	$V_{CB}=10\text{V}, f=1\text{MHz}$