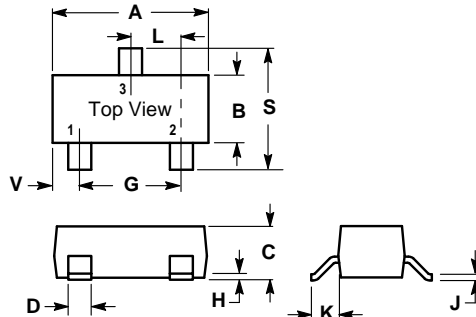
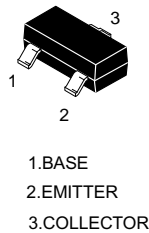


RoHS Compliant Product

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

● **FEATURES**

- Power Dissipation  
 $P_{CM}: 0.2 \text{ W (Ta = 25 } ^\circ\text{C)}$
- Collector Current  
 $I_{CM}: -0.15 \text{ A}$
- Collector-Base Voltage  
 $V_{(BR)CBO}: -50 \text{ V}$



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

● **ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

TYPE NUMBER	SYMBOL	TEST CONDITIONS	Min.	Typ.	Max.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -100 \mu\text{A}, I_E = 0 \text{ A}$	-50	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -0.1 \text{ mA}, I_B = 0 \text{ A}$	-50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10 \mu\text{A}, I_C = 0 \text{ A}$	-5	-	-	V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = -50 \text{ V}, I_E = 0 \text{ A}$	-	-	-0.1	$\mu\text{A}$
Collector Cut-Off Current	$I_{CEO}$	$V_{CE} = -50 \text{ V}, I_B = 0 \text{ A}$	-	-	-0.1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB} = -5 \text{ V}, I_C = 0 \text{ A}$	-	-	-0.1	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE} = -6 \text{ V}, I_C = -2 \text{ mA}$	130	-	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	-	-	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	-	-	-1.1	V
Transition Frequency	$f_T$	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ mA}, f = 30 \text{ MHz}$	80	-	-	MHz
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	-	-55 ~ +150			$^\circ\text{C}$

●  **$h_{FE}$  VALUES ARE CLASSIFIED AS FOLLOWS:**

Rank	L	H
$h_{FE}$	130 ~ 200	200 ~ 400

Marking: BA

