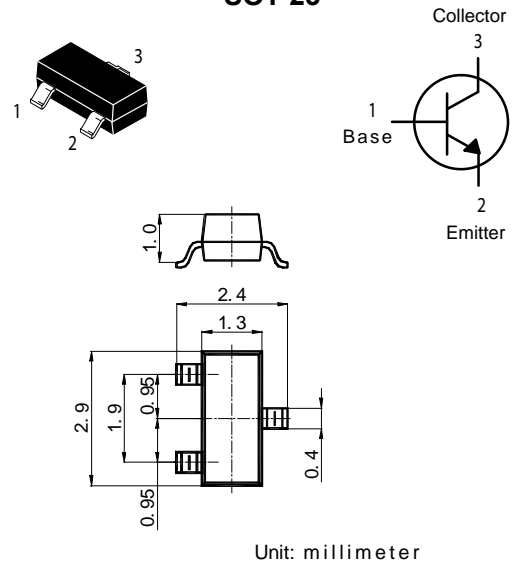


A suffix of "-C" specifies halogen & lead-free

SOT-23

FEATURES

- Power dissipation
 $P_{CM} : 0.225 \text{ W (Tamb=25°C)}$
- Collector Current
 $I_{CM} : 0.5 \text{ A}$
- Collector-base voltage
 $V_{(BR)CBO} : 50 \text{ V}$
- Operating & storage junction temperature
 $T_j, T_{stg} : -55°C \sim +150°C$
- RoHS Compliant Product



Unit: millimeter

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10 \text{ mA}, I_B = 0$	45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB} = 20 \text{ V}, I_E = 0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 20 \text{ V}, I_B = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5 \text{ V}, I_C = 0$			10	μA
DC current gain	h_{FE}	$V_{CE} = 1 \text{ V}, I_C = 100 \text{ mA}$	100		600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$			0.62	V
Base-emitter saturation voltage	$V_{BE(on)}$	$I_C = 500 \text{ mA}, V_{CE} = 1 \text{ V}$			1.2	V

MARKING	BCX19 = U1
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