RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

BCX19

SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(NPN)

FEATURES

* Power dissipation
  P_{CM} : 0.225 W (Tamb=25°C)
* Collector current
  I_{CM} : 0.5 A
* Collector-base voltage
  $V_{(BR)CBO}$: 50 V
* Operating and storage junction temperature range
  T_J,T_{stg}: -55°C to +150°C

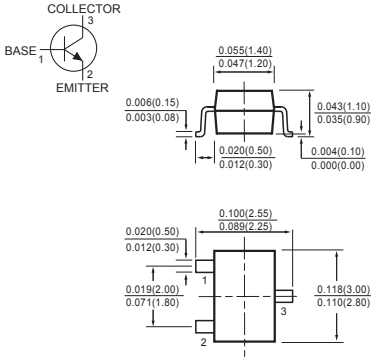
MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-O rate flame retardant
* Lead: MIL-STD-202E method 208C guaranteed
* Mounting position: Any
* Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

SOT-23



Dimensions in inches and (millimeters)

ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

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

MARKING	U1

Note : "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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