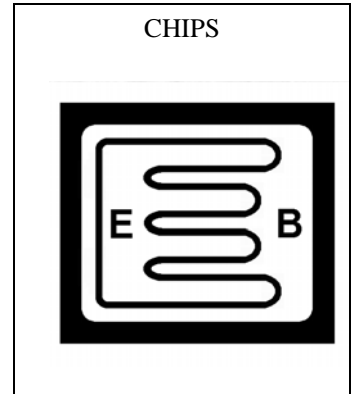


CHIP STRUCTURE

- * Dimensions: 120x145 mil²
- * Bond pad size:
 - Emitter: 20 x 80 mil²
 - Base: 50 x 25 mil²
- * Thickness: 12~13.5 mil
- * Contact Metallization
 - Front Side: Aluminum
 - Back Side: Silver



MAXIMUM RATINGS

Characteristic	Symbol	Min	Unit
Collector-Emitter Voltage	V_{CEO}	150	V
Collector-Base Voltage	V_{CBO}	150	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	8.0	A
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$ unless otherwise notes)

Characteristic	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C = 10 \text{ mA}, I_B = 0$)	V_{CEO}	150		V
Collector Cutoff Current ($V_{CE} = 150 \text{ V}, I_B = 0$)	I_{CEO}		0.1	mA
Collector Cutoff Current ($V_{CB} = 150 \text{ V}, I_E = 0$)	I_{CBO}		10	uA
Emitter Cutoff Current ($V_{EB} = 5.0 \text{ V}, I_C = 0$)	I_{EBO}		10	uA
DC Current Gain ($I_C = 0.1 \text{ A}, V_{CE} = 2.0 \text{ V}$) ($I_C = 2.0 \text{ A}, V_{CE} = 2.0 \text{ V}$) ($I_C = 3.0 \text{ A}, V_{CE} = 2.0 \text{ V}$) ($I_C = 4.0 \text{ A}, V_{CE} = 2.0 \text{ V}$)	h_{FE}	40 40 40 20		
Collector-Emitter Saturation Voltage ($I_C = 1.0 \text{ A}, I_B = 100 \text{ mA}$)	$V_{CE(SAT)}$		0.5	V
Base-Emitter On Voltage ($I_C = 1.0 \text{ A}, V_{CE} = 2.0 \text{ V}$)	$V_{BE(on)}$		1.0	V

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