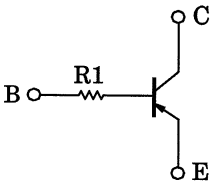


RN2714

Switching, Inverter Circuit, Interface Circuit
and Driver Circuit Applications

- Two devices incorporated in a USV (5-pin ultra-super-mini-type)
- Built-in bias resistors
- Simplified circuit design
- Reduced quantity of parts and manufacturing process

Equivalent Circuit

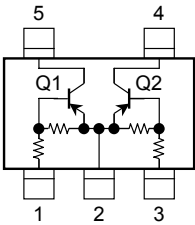


Maximum Ratings (Ta = 25°C)

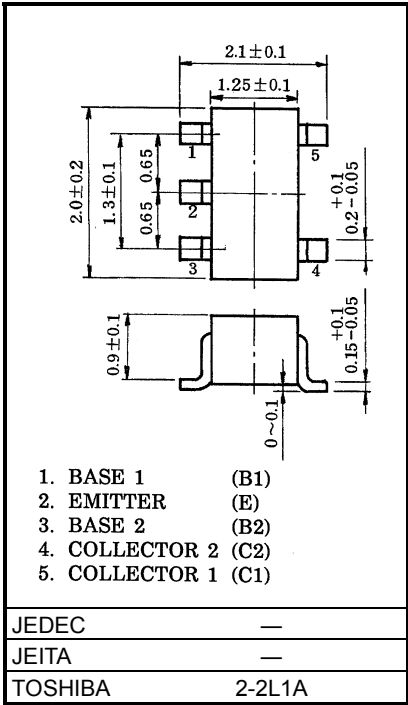
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-100	mA
Collector power dissipation	P_C^*	200	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55~150	°C

* : Total rating

Equivalent Circuit (top view)



Unit: mm

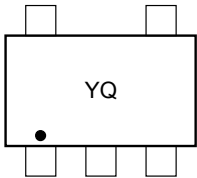


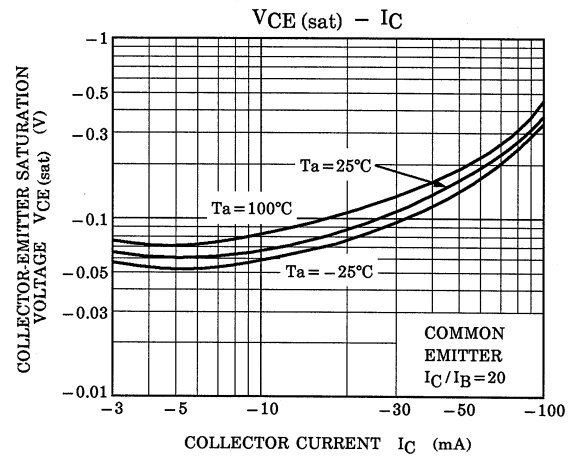
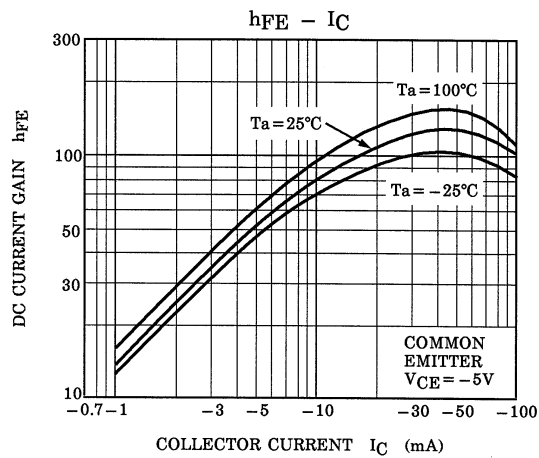
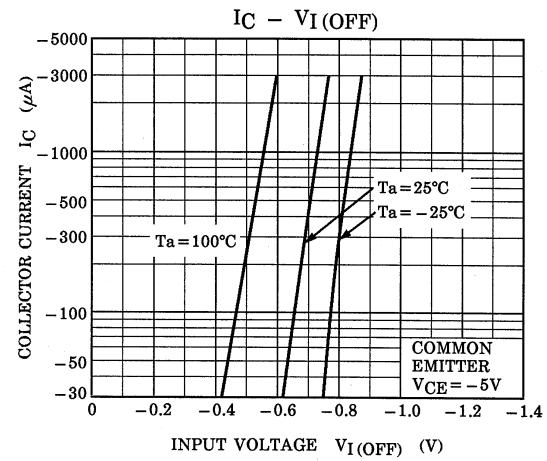
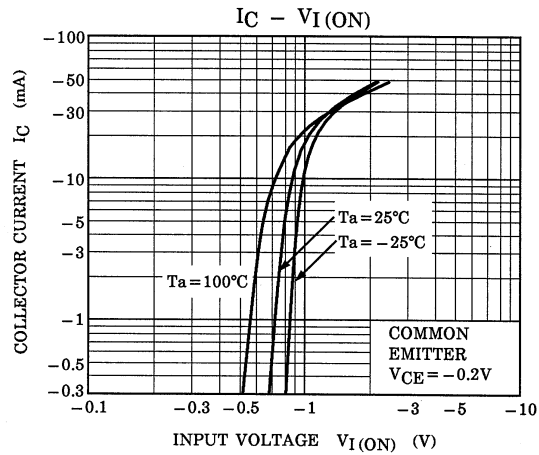
Weight: 6.2 mg

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cutoff current	I_{CBO}	—	$V_{CB} = -50\text{ V}, I_E = 0$	—	—	-100	nA
Emitter cutoff current	I_{EBO}	—	$V_{EB} = -5\text{ V}, I_C = 0$	—	—	-100	nA
DC current gain	h_{FE}	—	$V_{CE} = -5\text{ V}, I_C = -1\text{ mA}$	120	—	400	—
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	$I_C = -5\text{ mA}, I_B = -0.25\text{ mA}$	—	-0.1	-0.3	V
Input voltage (ON)	$V_{I(ON)}$	—	$V_{CE} = -0.2\text{ V}, I_C = -5\text{ mA}$	-0.5	—	-2.0	V
Input voltage (OFF)	$V_{I(OFF)}$	—	$V_{CE} = -5\text{ V}, I_C = -0.1\text{ mA}$	-0.3	—	-0.9	V
Input resistor	R1	—	—	0.7	1.0	1.3	kΩ
Resistor ratio	R1/R2	—	—	—	0.1	—	—

Marking





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