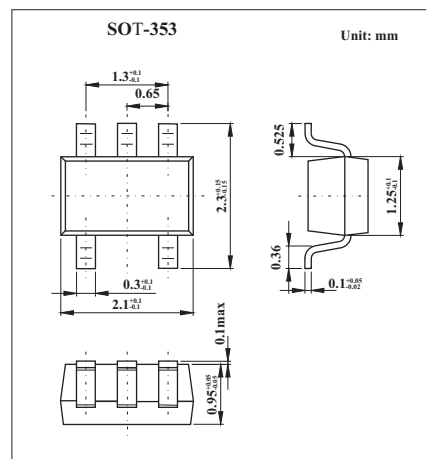
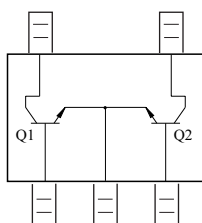


KTC601U

■ Features

- Power dissipation: $P_c=200\text{mW}$
- Collector Curren: $I_c=150\text{mA}$



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	60	V
Collector-Emitter Voltage	V_{CE0}	50	V
Emitter-Base Voltage	V_{EB0}	5.0	V
Collector Current -Continuous	I_c	150	mA
Collector Power Dissipation(TOTAL)	P_c	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-to-base breakdown voltage	$V_{(BR)CBO}$	$I_c = 100\mu\text{A}, I_E = 0$	60			V
Collector-to-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c = 1\text{mA}, I_B = 0$	50			V
Emitter-to-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu\text{A}, I_C = 0$	5.0			V
Collector cutoff current	I_{CBO}	$V_{CB} = 60\text{V}, I_E = 0$			0.1	μA
Collector cutoff current	I_{EBO}	$V_{CE} = 5.0\text{V}, I_C = 0$			0.1	μA
DC current gain	h_{FE}	$V_{CE} = 6\text{V}, I_C = 2.0\text{mA}$	120		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100\text{mA}, I_B = 10\text{mA}$			0.25	V
Transition frequency	f_t	$V_{CE} = 10\text{V}, I_C = 1\text{mA}, f = 100\text{MHz}$	80			MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$			3.5	pF
Noise Figure	NF	$V_{CE} = 6\text{V}, I_C = 0.1\text{mA}, f = 1\text{KHz}, R_g = 10\text{K}\Omega$		1	10	dB

■ hFE Classification

Marking	LY	LGR
Rank	Y	GR
Range	120~240	200~400