

DRIVER APPLICATIONS.

FEATURES

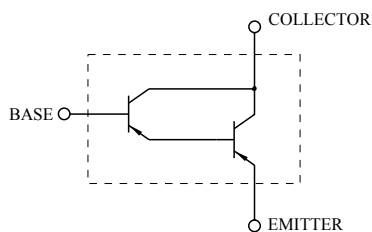
- AF amplifier, solenoid drivers, LED drivers.
- Darlington connection.
- High DC current gain.
- Very small-sized package permitting sets to be made smaller and slimer.
- Complementary to KTD1854T.

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-80	V
Collector-Emitter Voltage		V_{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-10	V
Collector Current	DC	I_C	-200	mA
	Pulse	I_{CP}	-400	
Collector Power Dissipation		P_C^*	0.9	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

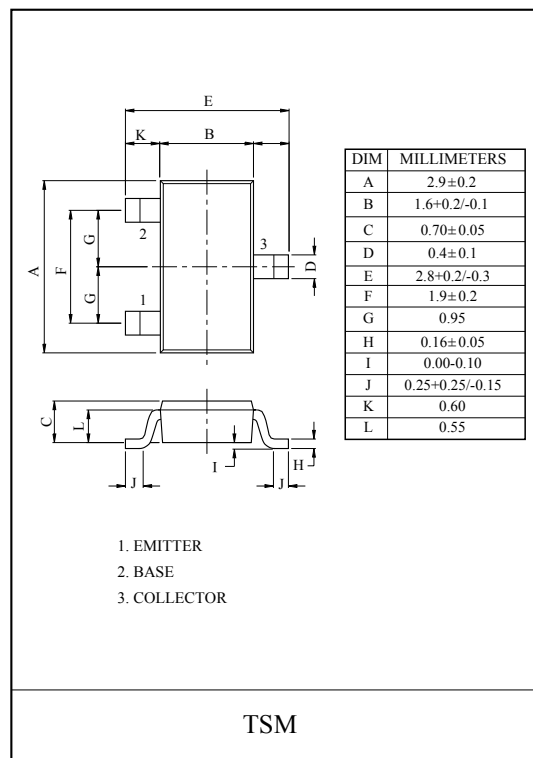
* Package mounted on a ceramic board ($600\text{mm}^2 \times 0.8\text{mm}$)

EQUIVALENT CIRCUIT

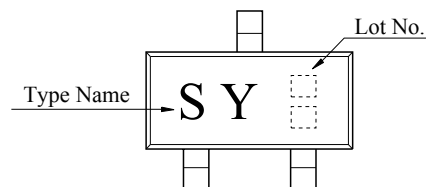


ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-60\text{V}, I_E=0$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-8\text{V}, I_C=0$	-	-	-100	nA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-80			V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-50			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_C=-10\mu\text{A}, I_C=0$	-10			V
DC Current Gain	h_{FE1}	$V_{CE}=-2\text{V}, I_C=-10\text{mA}$	5000	-	-	
	h_{FE2}	$V_{CE}=-2\text{V}, I_C=-100\text{mA}$	3000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-100\mu\text{A}$	-	-0.9	-1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100\text{mA}, I_B=-100\mu\text{A}$	-	-1.5	-2.0	V

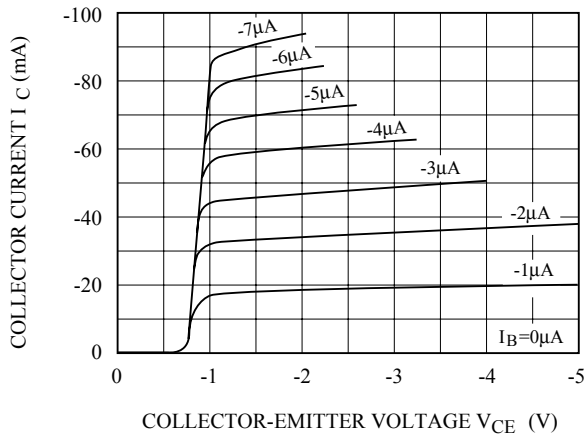


Marking

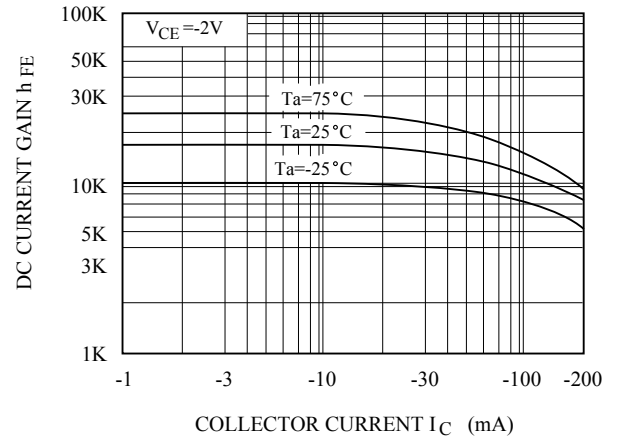


KTB1234T

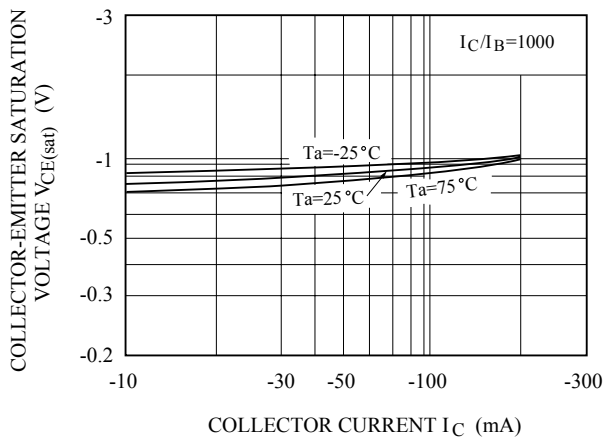
$I_C - V_{CE}$



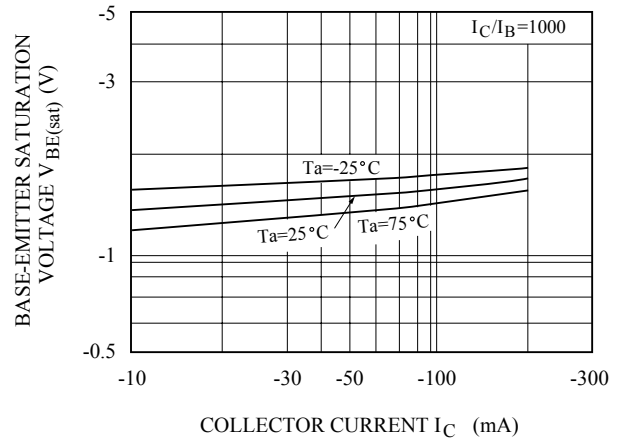
$h_{FE} - I_C$



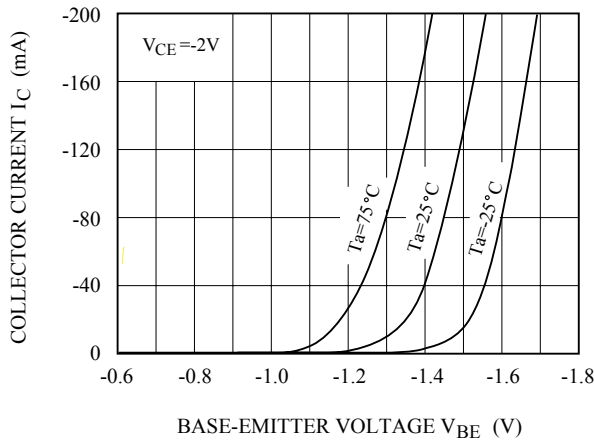
$V_{CE(sat)} - I_C$



$V_{BE(sat)} - I_C$



$I_C - V_{BE}$



$P_C - T_a$

