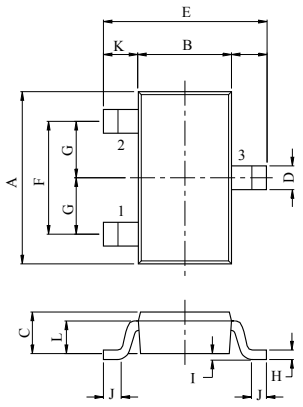
DRIVER APPLICATIONS.

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.



DIM	MILLIMETERS
A	2.9±0.2
B	1.6+0.2/-0.1
C	0.70±0.05
D	0.4±0.1
E	2.8+0.2/-0.3
F	1.9±0.2
G	0.95
H	0.16±0.05
I	0.00-0.10
J	0.25+0.25/-0.15
K	0.60
L	0.55

1. EMITTER
2. BASE
3. COLLECTOR

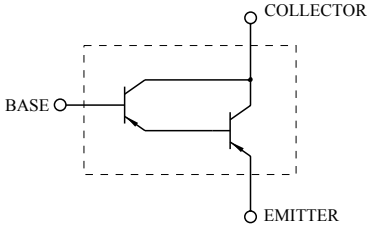
TSM

MAXIMUM RATINGS (Ta=25℃)

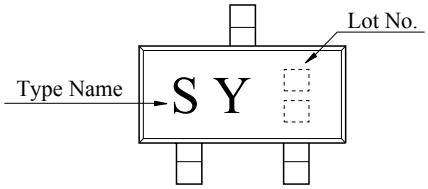
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-80	V
Collector-Emitter Voltage		V_{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-10	V
Collector Current	DC	I_C	-200	mA
	Pulse	I_{CP}	-400	
Collector Power Dissipation		P_C *	0.9	W
Junction Temperature		T_j	150	℃
Storage Temperature Range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

* Package mounted on a ceramic board (600㎟×0.8㎜)

EQUIVALENT CIRCUIT



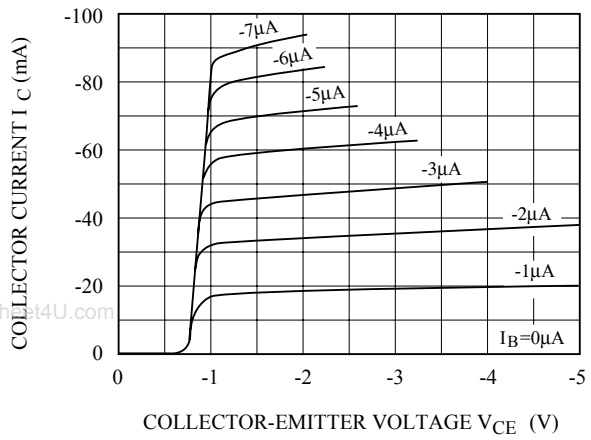
Marking



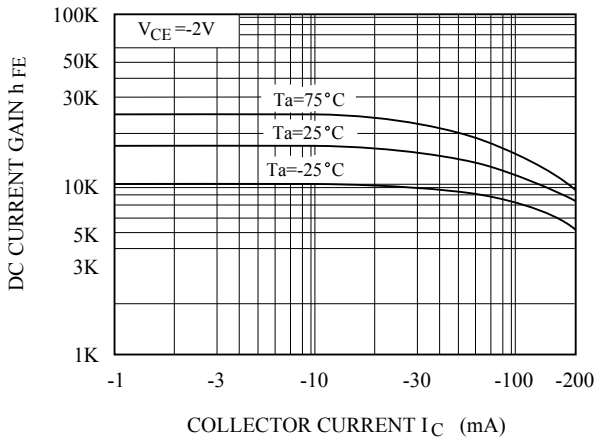
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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

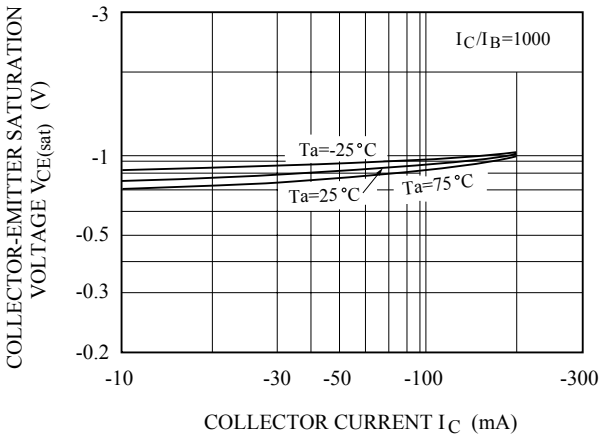
I_C - V_{CE}



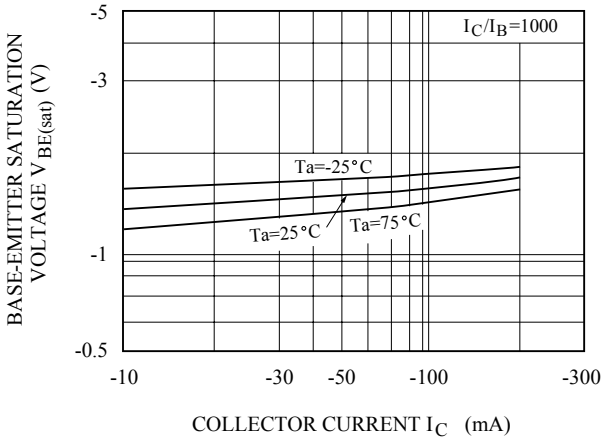
h_{FE} - I_C



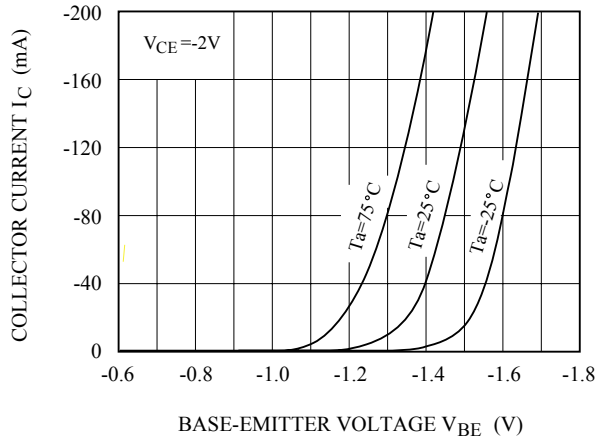
$V_{CE(sat)}$ - I_C



$V_{BE(sat)}$ - I_C



I_C - V_{BE}



Pc - Ta