

RELAY DRIVERS, LAMP DRIVERS,
MOTOR DRIVERS AND STROBES APPLICATION.

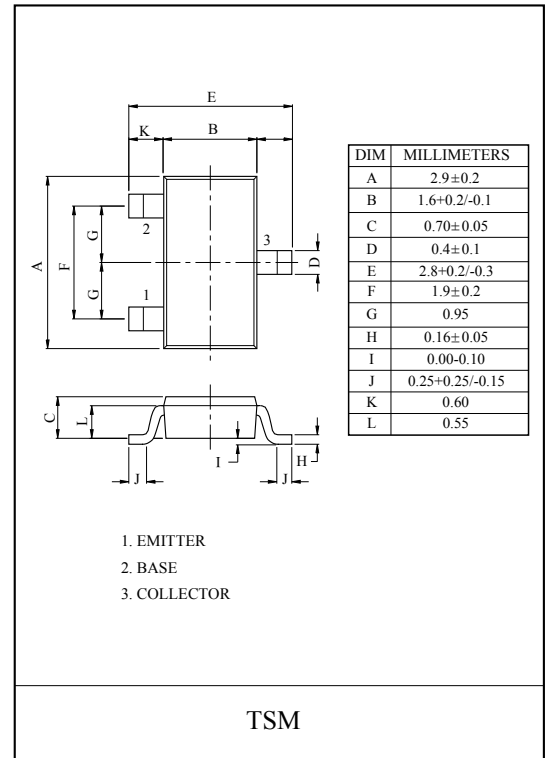
FEATURES

- Adoption of MBIT Processes.
- High Current Capacitance.
- Low Collector-to-Emitter Saturation Voltage.
- High Speed Switching.
- Ultrasmall-Sized Package permitting applied sets to be made small and slim.
- High Allowable Power Dissipation.
- Complementary to KTA1535T

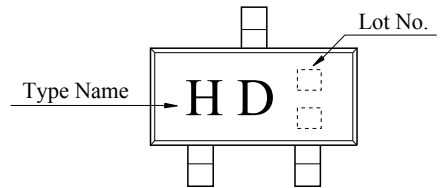
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	20	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	DC	I_C	A
	Pulse	I_{CP}	
Base Current	I_B	600	mA
Collector Power Dissipation	P_C^*	0.9	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

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



Marking

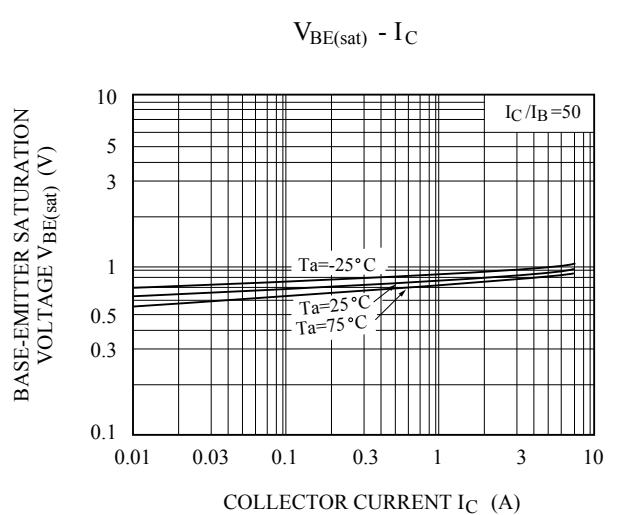
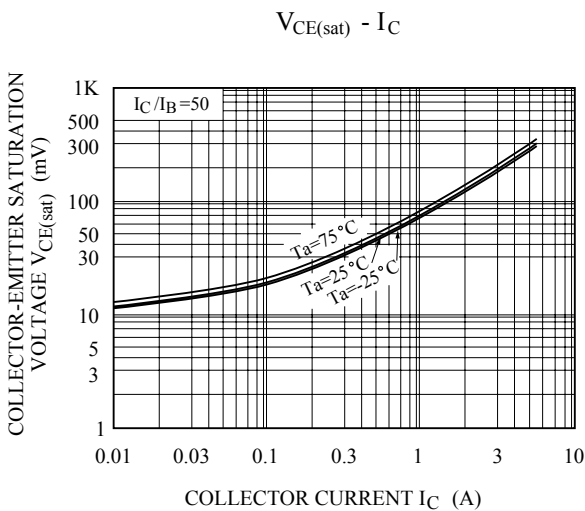
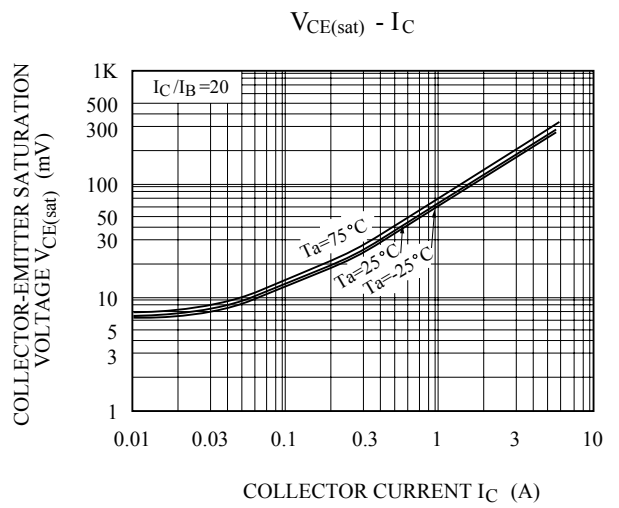
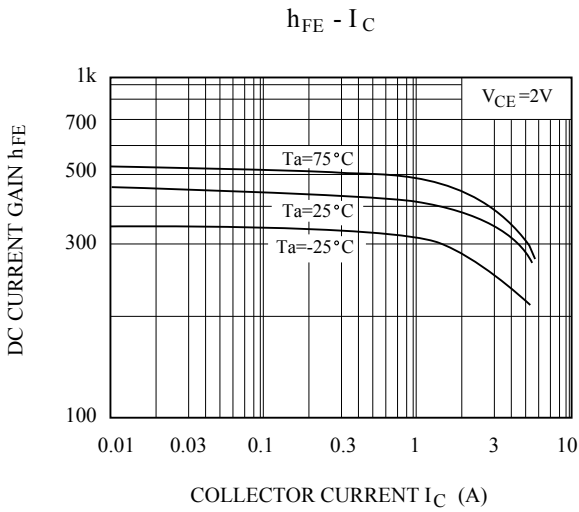
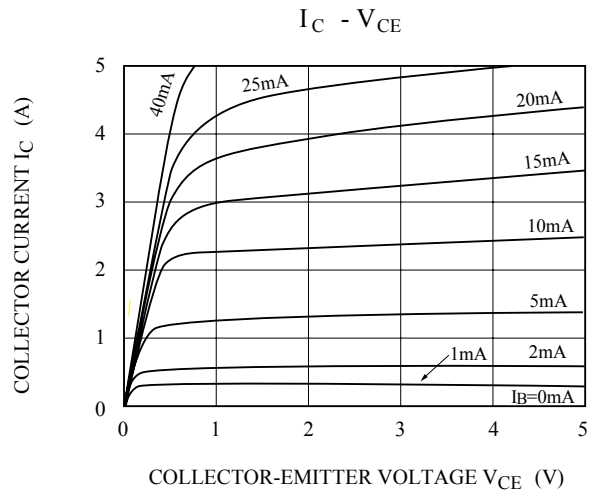
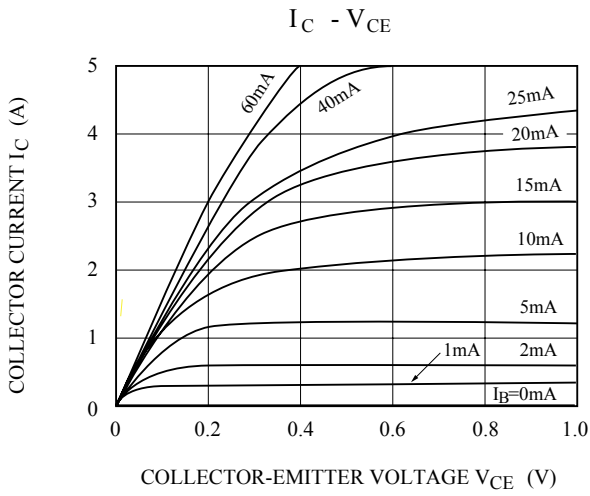


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=12V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4V, I_C=0$	-	-	0.1	μA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	20	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	20	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1.5A, I_B=30mA$	-	120	150	mV
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1.5A, I_B=30mA$	-	0.85	1.2	V
DC Current Gain	h_{FE}	$V_{CE}=2V, I_C=500mA$	200	-	560	
Transition Frequency	f_T	$V_{CE}=2V, I_C=500mA$	-	180	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$	-	30	-	pF
Switching Time	Turn-On Time	t_{on}	-	30	-	nS
	Storage Time	t_{stg}	-	210	-	
	Fall Time	t_f	-	11	-	

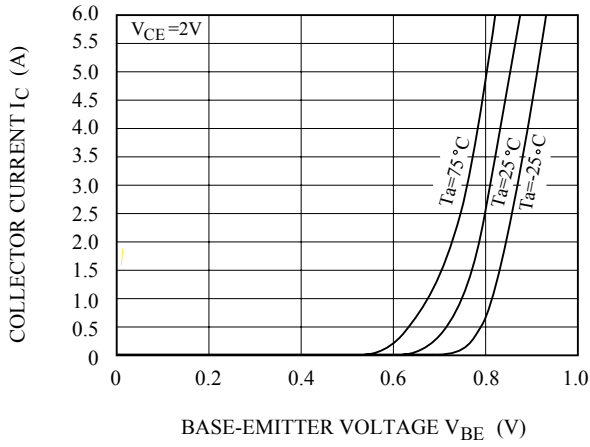
$PW=20\mu s$
 $DC \leq 1\%$
 I_{B1}
 I_{B2}
 INPUT
 50Ω
 V_R
 $1k\Omega$
 $220\mu F$
 $470\mu F$
 $V_{BE}=-5V$
 $V_{CC}=5V$
 $20I_{B1}=20I_{B2}=I_C=1.5A$
 OUTPUT
 R_L

KTC3535T

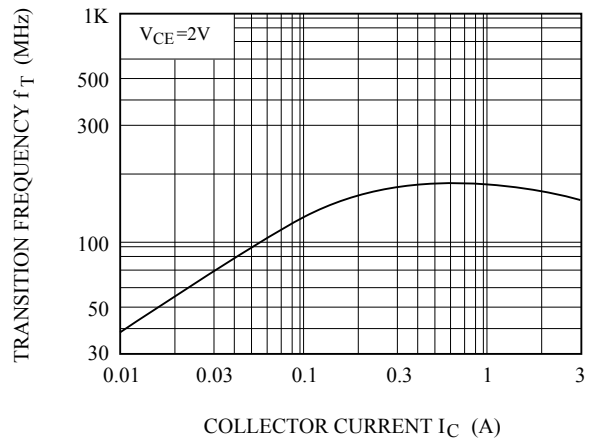


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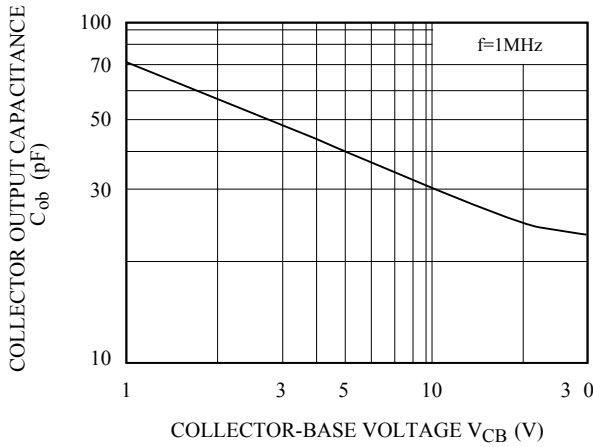
$I_C - V_{BE}$



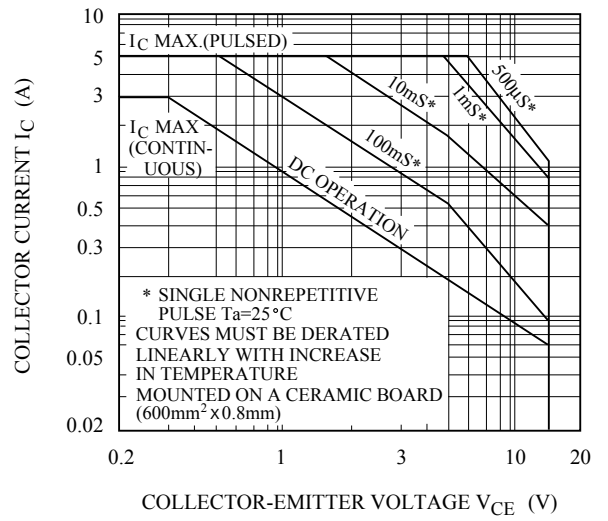
$f_T - I_C$



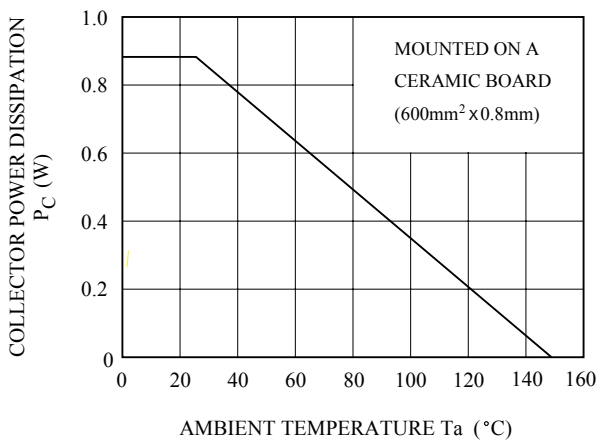
$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$P_c - T_a$



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Datasheets for electronics components.