

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

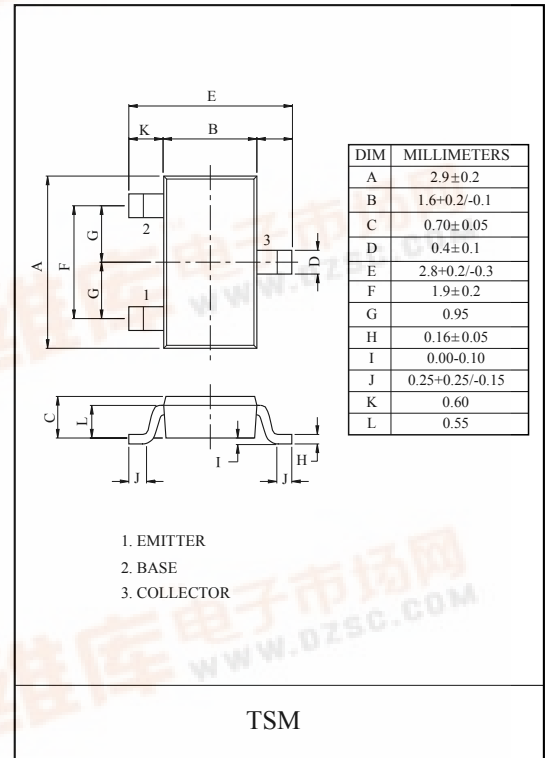
#### FEATURES

- 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 KTA1536T.

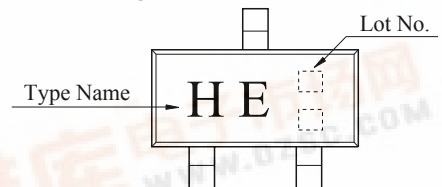
#### MAXIMUM RATING (Ta=25°C)

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	$I_C$	5	A
	Pulse	$I_{CP}$	8	
Base Current		$I_B$	1.2	A
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 (600mm<sup>2</sup> × 0.8mm)



#### Marking

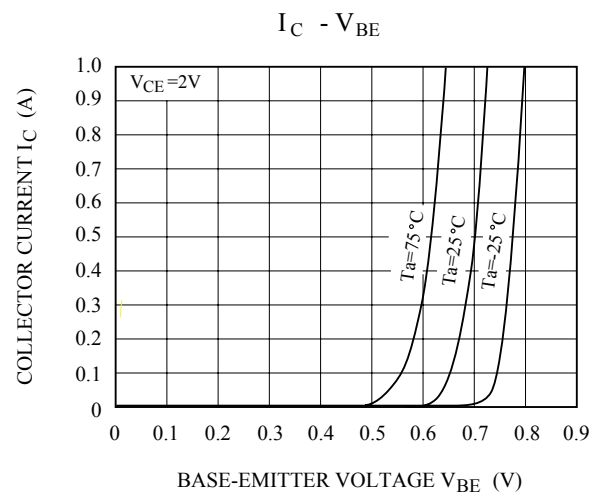
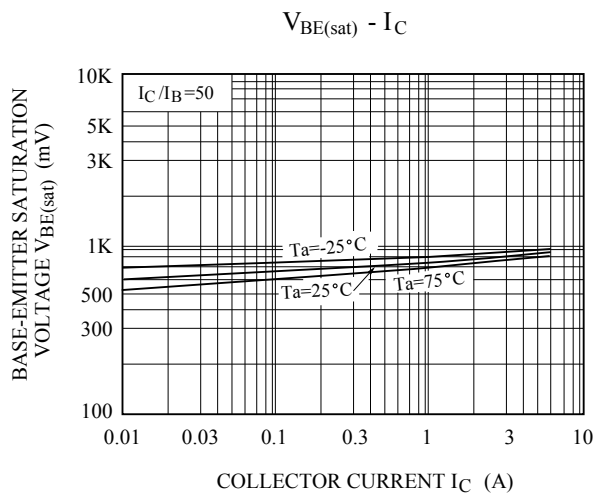
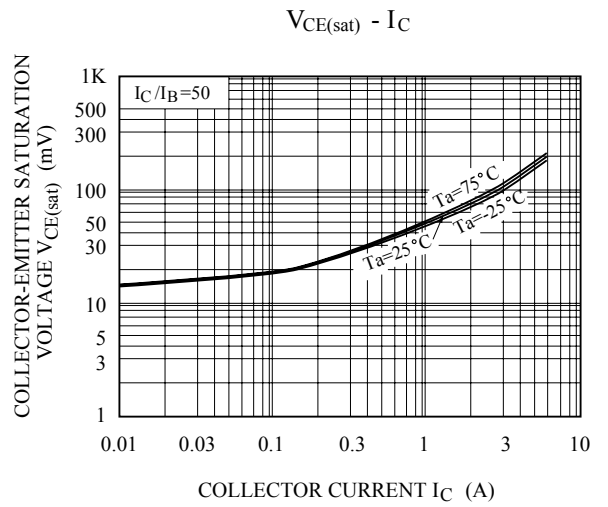
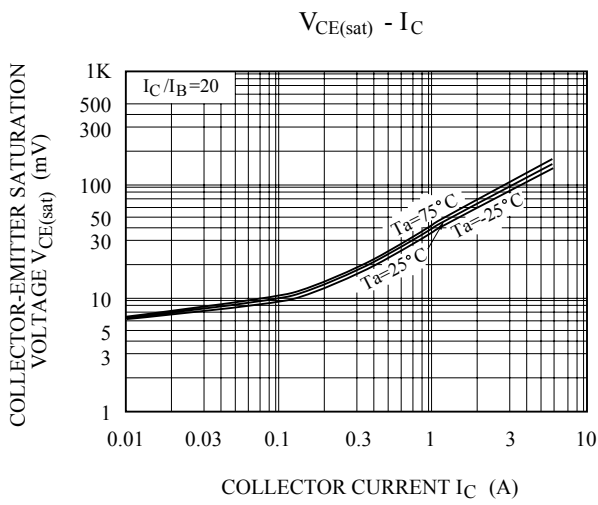
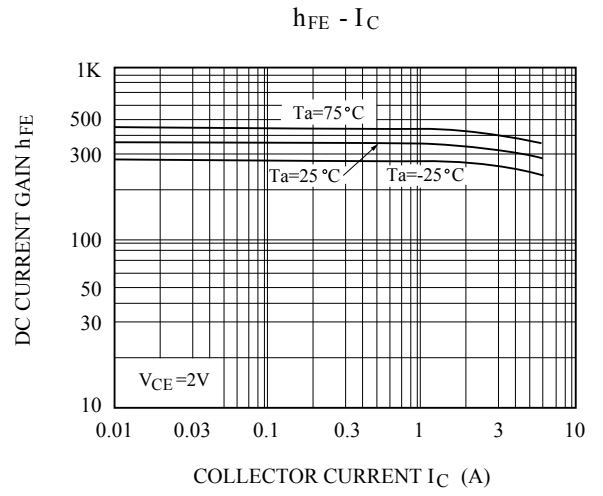
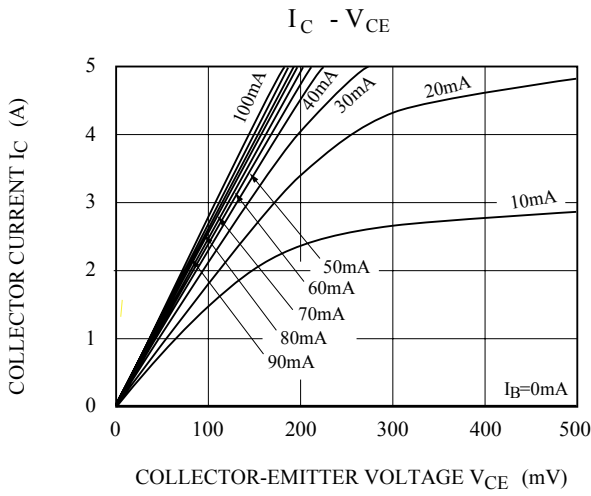


#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

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		$V_{CE(sat)}$	$I_C=3A, I_B=60mA$	-	200	300	mV
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=3A, I_B=60mA$	-	0.85	1.2	V
DC Current Gain		$h_{FE}$	$V_{CE}=2V, I_C=500mA$	200	-	560	
Transition Frequency		$f_T$	$V_{CE}=2V, I_C=500mA$	-	160	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, f=1MHz$	-	46	-	pF
Switching Time	Turn-On Time	$t_{on}$		-	32	-	nS
	Storage Time	$t_{stg}$		-	250	-	
	Fall Time	$t_f$		-	10	-	

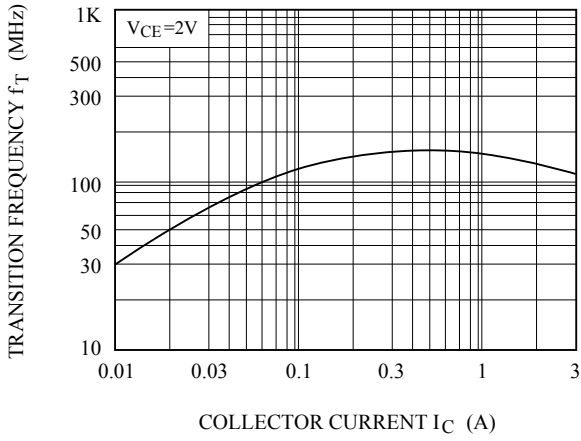


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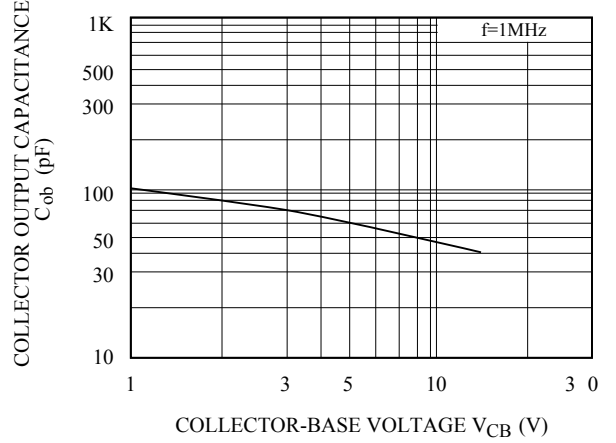


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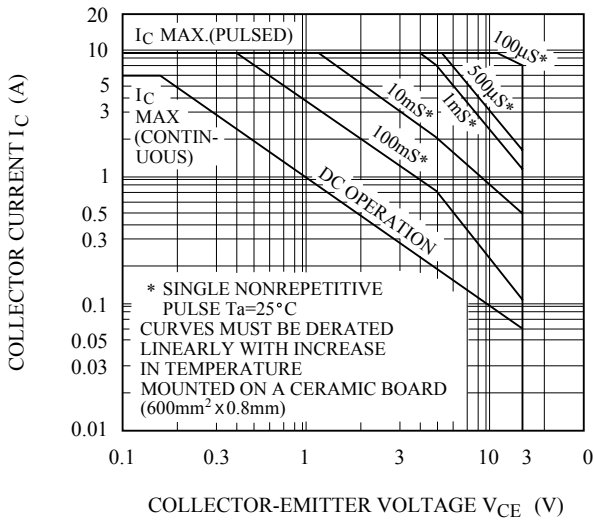
$f_T - I_C$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$P_c - T_a$

