

RELAY DRIVERS, LAMP DRIVERS,
MOTOR DRIVERS APPLICATION.

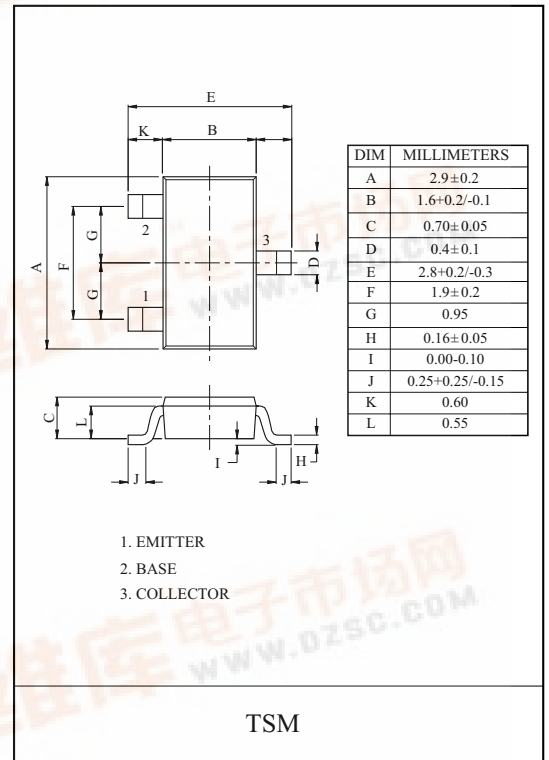
FEATURES

- Adoption of MBIT Processes.
- Large Current Capacitance.
- Low Collector-to-Emitter Saturation Voltage.
- High-Speed Switching.
- Ultrasmall Package Facilitates Miniaturization in end Products.
- High Allowable Power Dissipation.
- Complementary to KTA1551T.

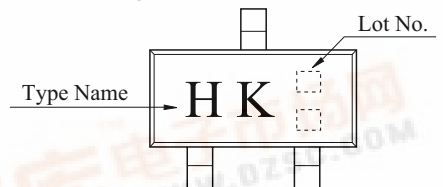
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	80	V
Collector-Emitter Voltage		V _{CES}	80	V
		V _{CEO}	50	
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current	DC	I _C	1.0	A
	Pulse	I _{CP}	3	
Base Current		I _B	200	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

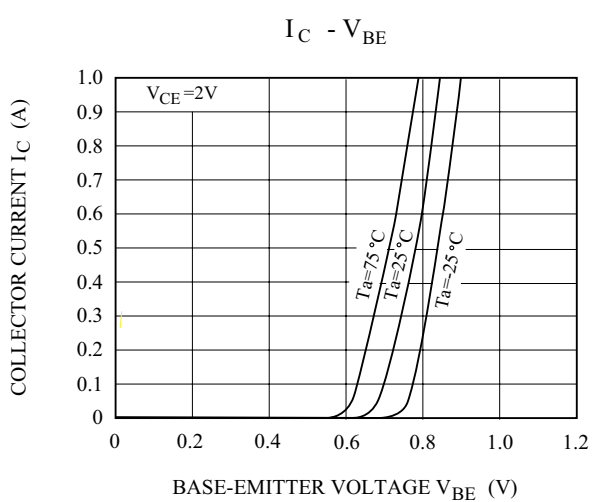
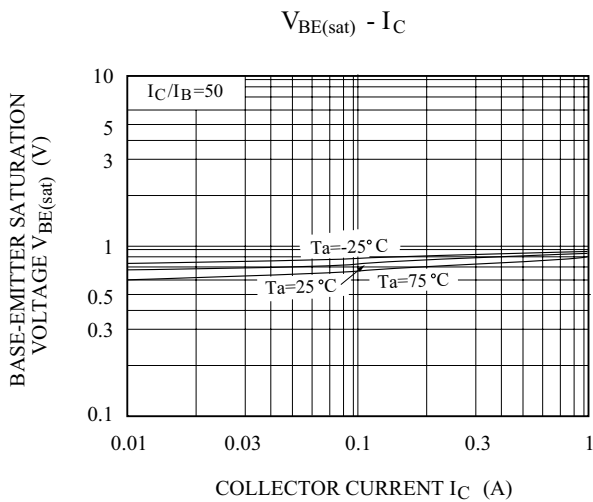
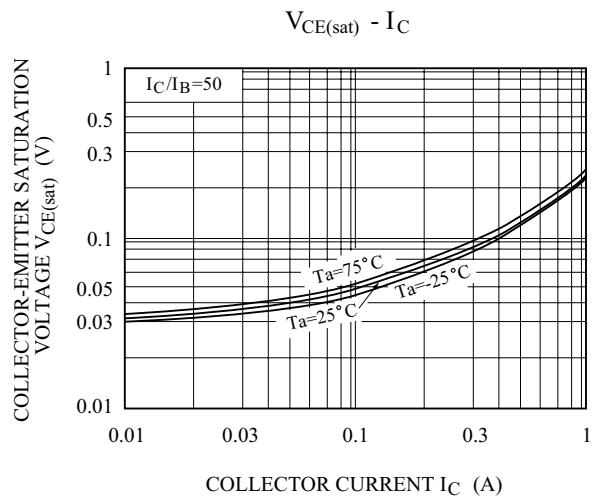
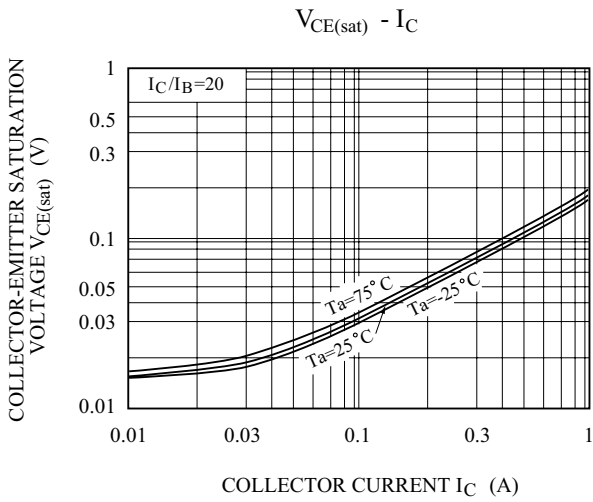
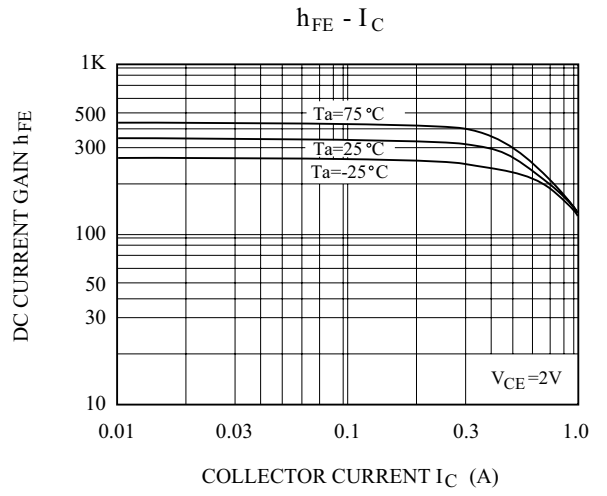
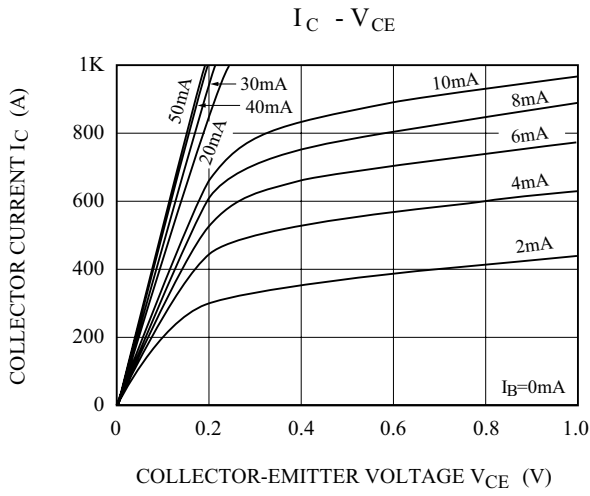


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I _{CB0}	V _{CB} =40V, 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 μA, I _E =0	80	-	-	V
Collector-Emitter Breakdown Voltage		V _{(BR)CES}	I _C =100 μA, V _{BE} =0	80	-	-	V
		V _{(BR)CEO}	I _C =1mA, I _B =0	50	-	-	V
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	I _E =10 μA, I _C =0	5	-	-	V
Collector-Emitter Saturation Voltage		V _{CE(sat)1}	I _C =500mA, I _B =10mA	-	130	190	mV
		V _{CE(sat)2}	I _C =300mA, I _B =6mA	-	90	135	mV
Base-Emitter Saturation Voltage		V _{BE(sat)}	I _C =500mA, I _B =10mA	-	0.81	1.2	V
DC Current Gain		h _{FE}	V _{CE} =2V, I _C =100mA	200	-	560	
Transition Frequency		f _T	V _{CE} =10V, I _C =300mA	-	420	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =10V, f=1MHz	-	6	-	pF
Switching Time	Turn-On Time	t _{on}	<p>PW=20μs DC ≤ 1%</p> <p>INPUT — I_{B1} I_{B2} —</p> <p>OUTPUT</p> <p>50Ω V_R R_B R_L</p> <p>100μF 470μF</p> <p>V_{BE}=-5V V_{CC}=25V</p> <p>20I_{B1}=-20I_{B2}=I_C=500mA</p>	-	35	-	nS
	Storage Time	t _{stg}		-	330	-	
	Fall Time	t _f		-	40	-	

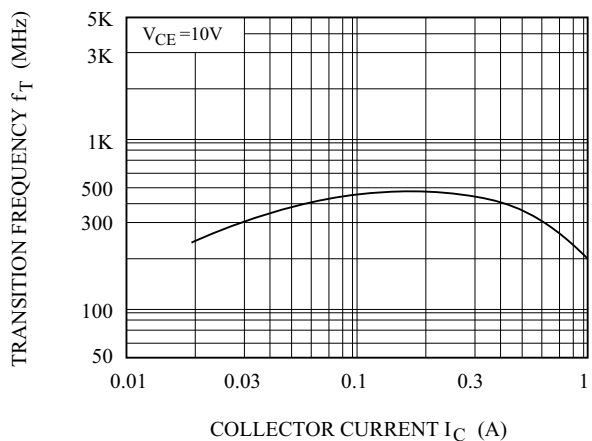


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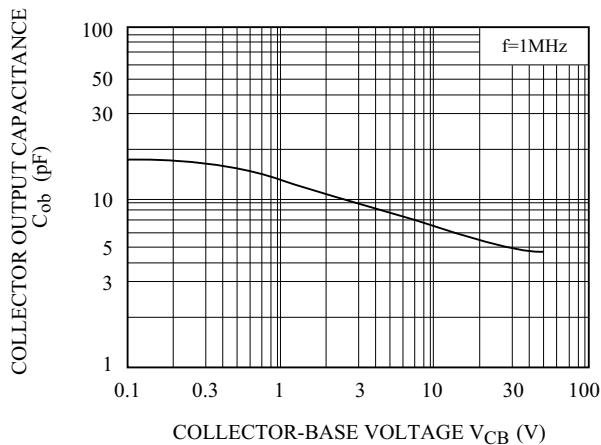


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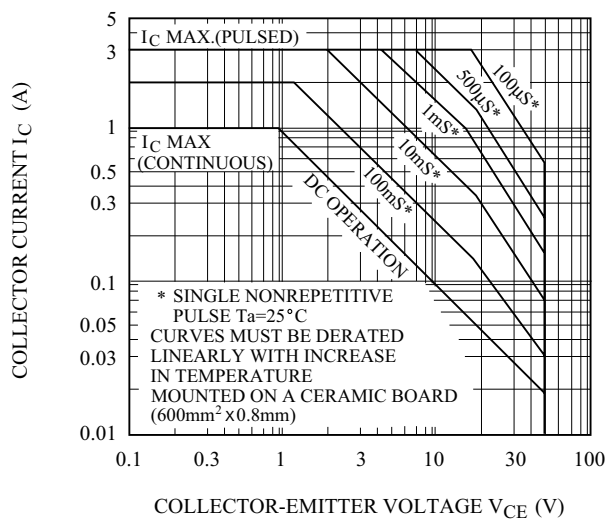
$f_T - I_C$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$P_c - T_a$

