

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 KTA1532T

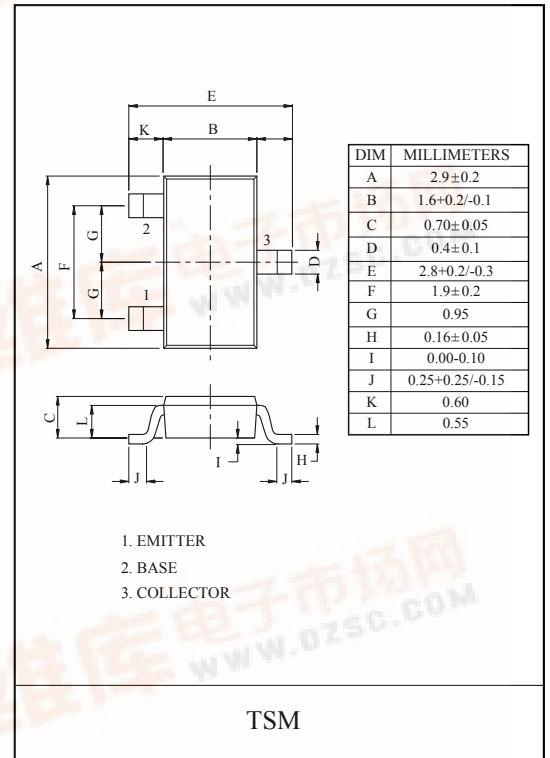
MAXIMUM RATING (Ta=25°C)

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	1.5	A
	Pulse	I _{CP}	3	A
Base Current		I _B	300	mA
Collector Power Dissipation		P _C *	0.9	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55 ~ 150	°C

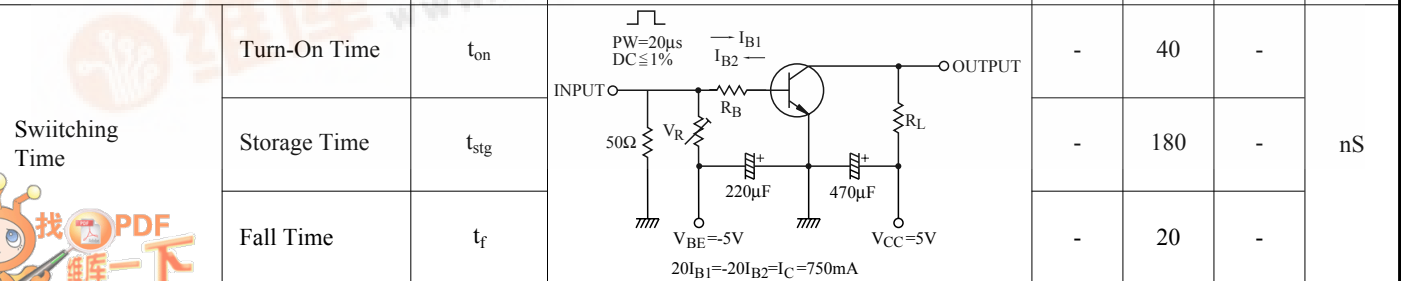
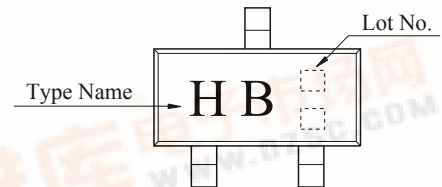
* Package mounted on a ceramic board (600mm² × 0.8mm)

ELECTRICAL CHARACTERISTICS (Ta=25°C)

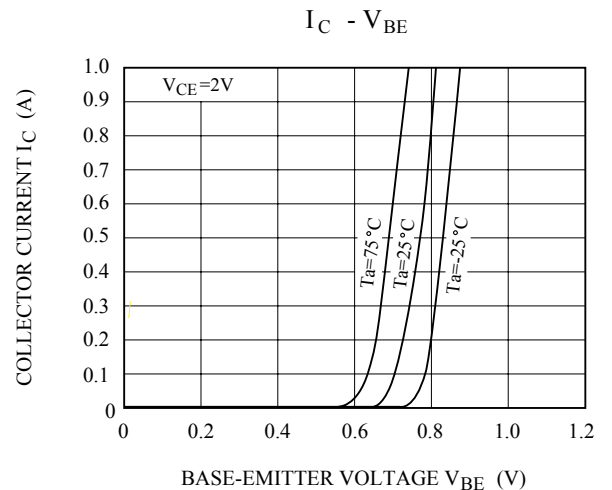
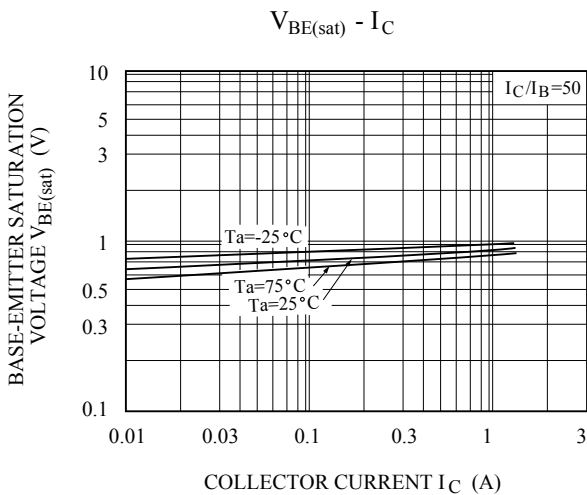
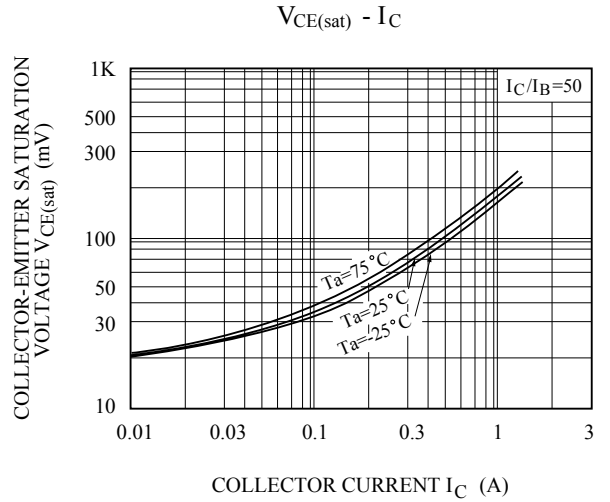
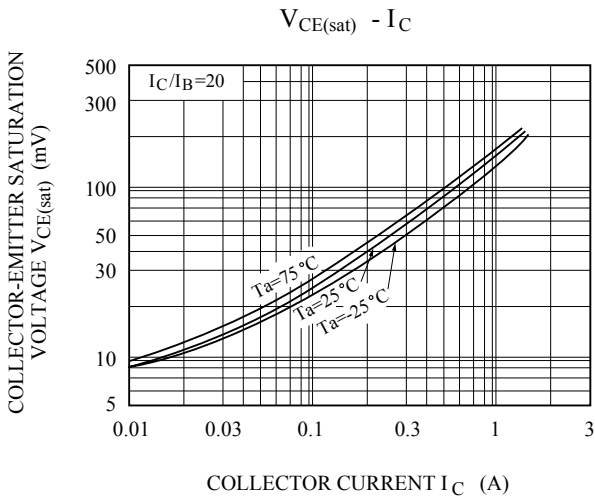
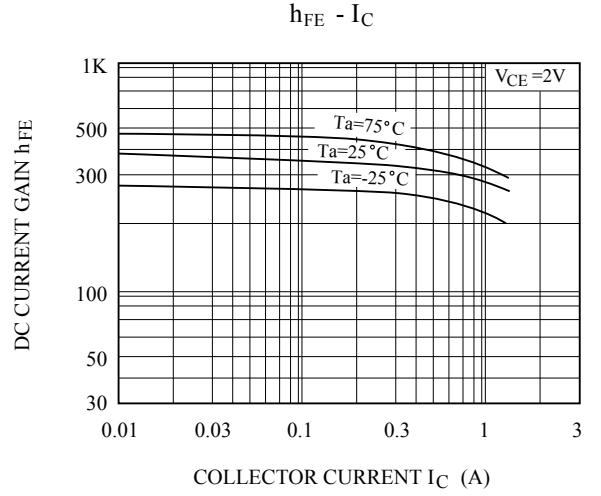
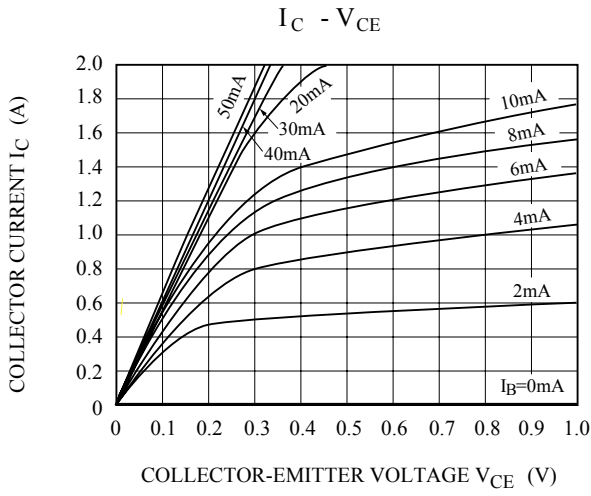
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =12V, I _E =0	-	-	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =4V, I _C =0	-	-	0.1	μA
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =10μA, I _E =0	20	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	20	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	5	-	-	V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =750mA, I _B =15mA	-	130	200	mV
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =750mA, I _B =15mA	-	0.85	1.2	V
DC Current Gain	h _{FE}	V _{CE} =2V, I _C =100mA	200	-	560	
Transition Frequency	f _T	V _{CE} =2V, I _C =300mA	-	210	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz	-	20	-	pF



Marking

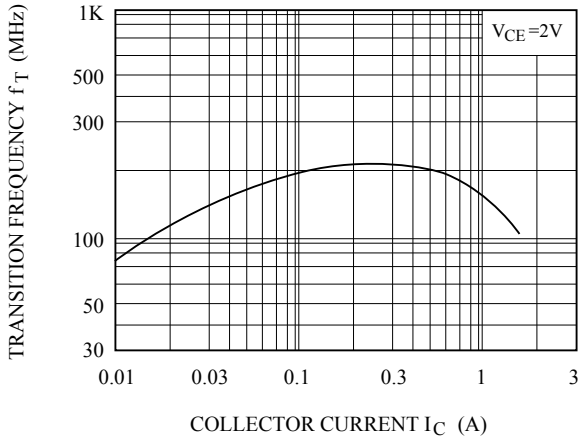


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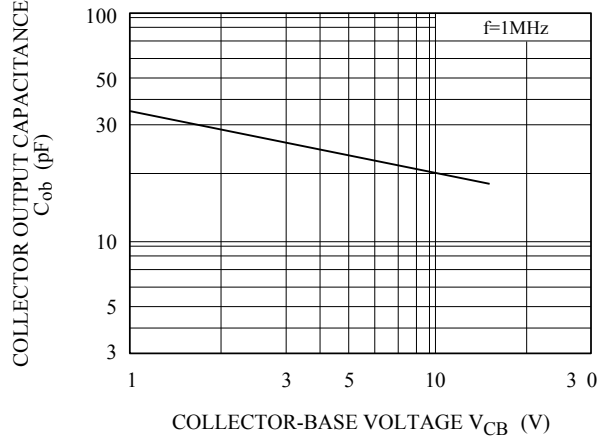


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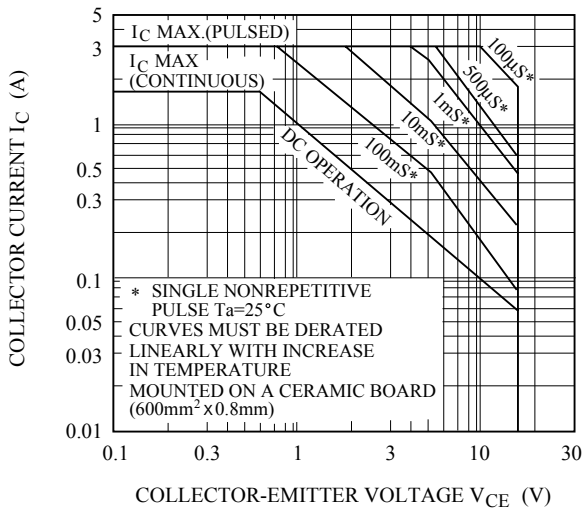
$f_T - I_C$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$P_c - T_a$

