

VOLTAGE REGULATORS, RELAY DRIVERS
LAMP DRIVERS, ELECTRICAL EQUIPMENT

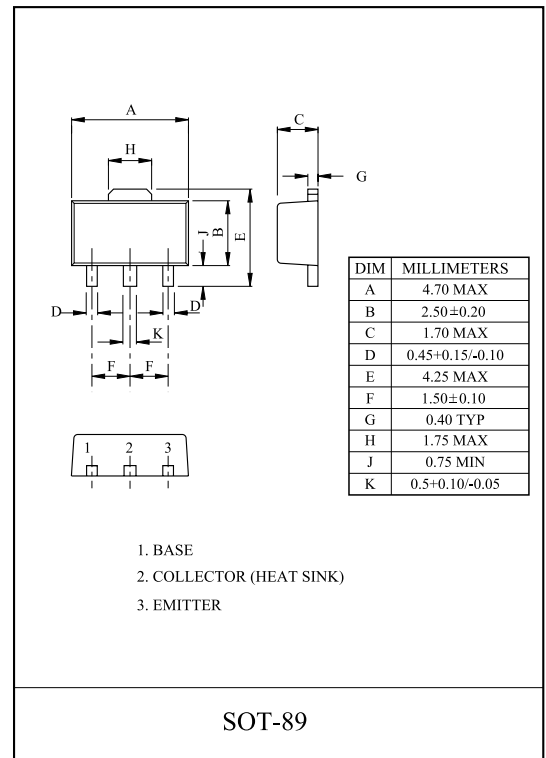
FEATURES

- Adoption of MBIT processes.
- Low collector-to-emitter saturation voltage.
- Fast switching speed.
- Large current capacity and wide ASO.
- Complementary to KTB1124.

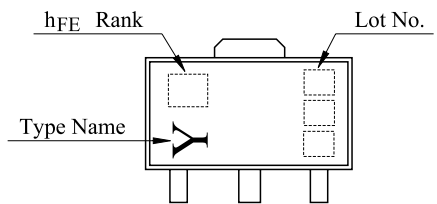
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	I _C	3	A
Collector Current(Pulse)	I _{CP}	6	A
Base Current	I _B	600	mA
Collector Power Dissipation	P _C	500	mW
	P _C *	1	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

* : Package mounted on ceramic substrate(250mm² × 0.8t)



Marking

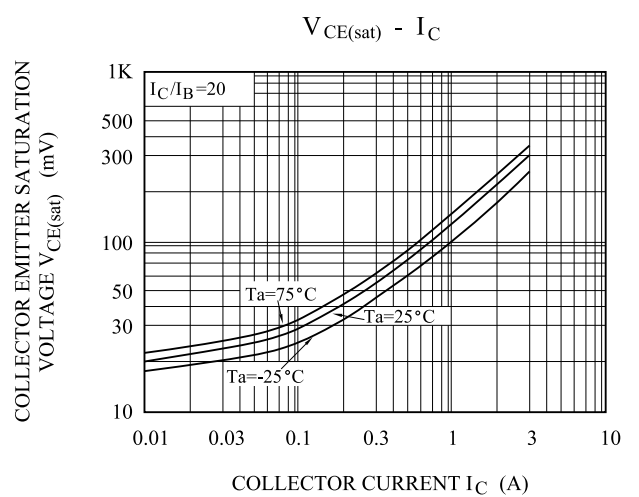
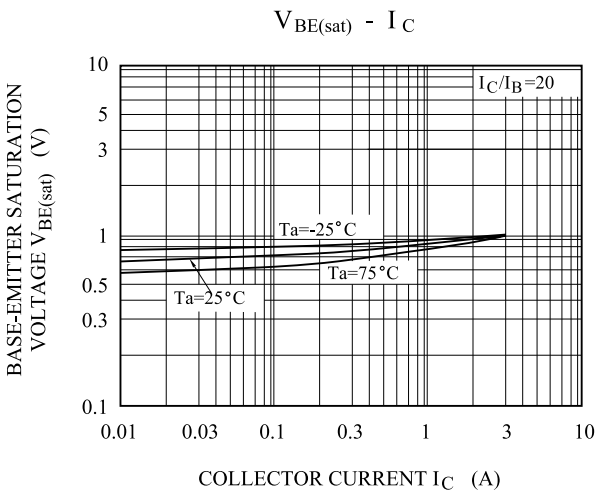
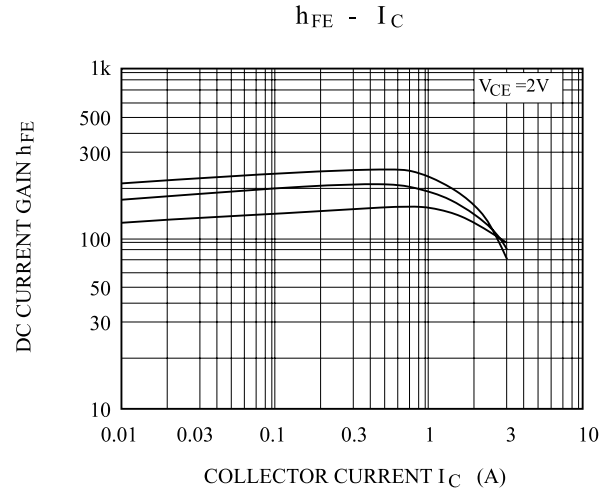
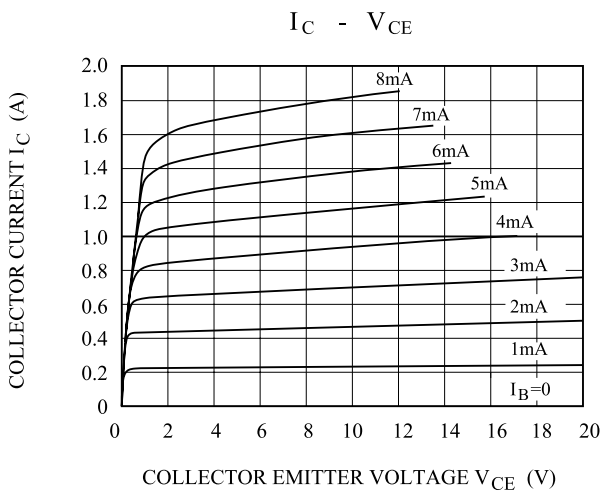
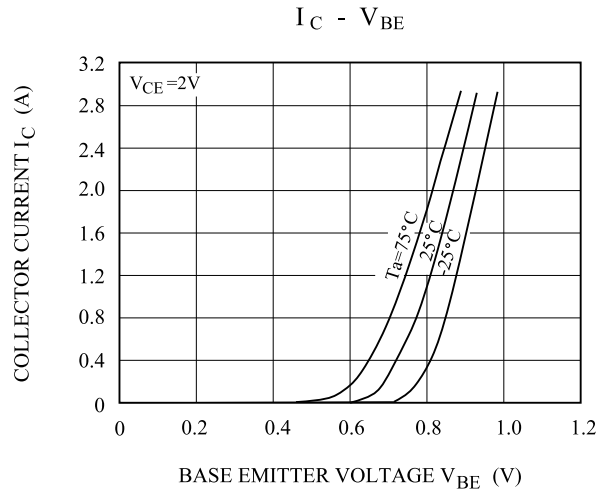
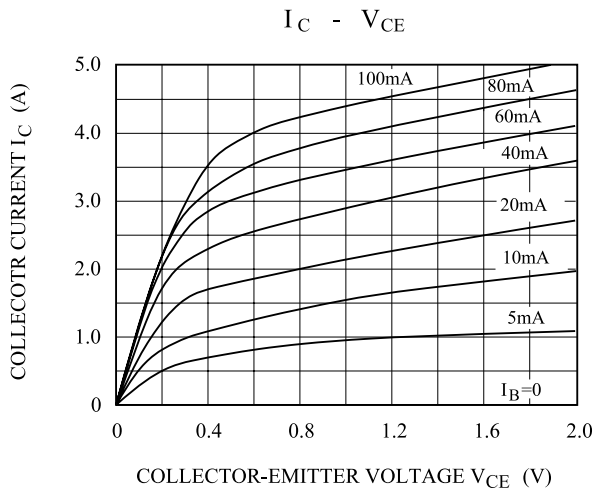


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT.
Collector Cut-off Current	I _{CBO}	V _{CB} =40V, I _E =0	-	-	1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =4V, I _C =0	-	-	1	μA
DC Current Gain	h _{FE} (1) (Note)	V _{CE} =2V, I _C =100mA	100	-	400	
	h _{FE} (2)	V _{CE} =2V, I _C =3A	35	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =2A, I _B =100mA	-	0.19	0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =2A, I _B =100mA	-	0.94	1.2	V
Transition Frequency	f _T	V _{CE} =10V, I _C =50mA	-	150	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz, I _E =0	-	25	-	pF
Switching Time	Turn-on Time	t _{on}	-	70	-	nS
	Storage Time	t _{stg}	-	650	-	
	Fall Time	t _f	-	35	-	

Note : h_{FE}(1) Classification A:100 ~ 200, B:140 ~ 280, C:200 ~ 400

KTD1624



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