

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.
- Suffix U : Qualified to AEC-Q101.
ex) KTD1624-B-RTF/HU

MAXIMUM RATING (Ta=25°C)

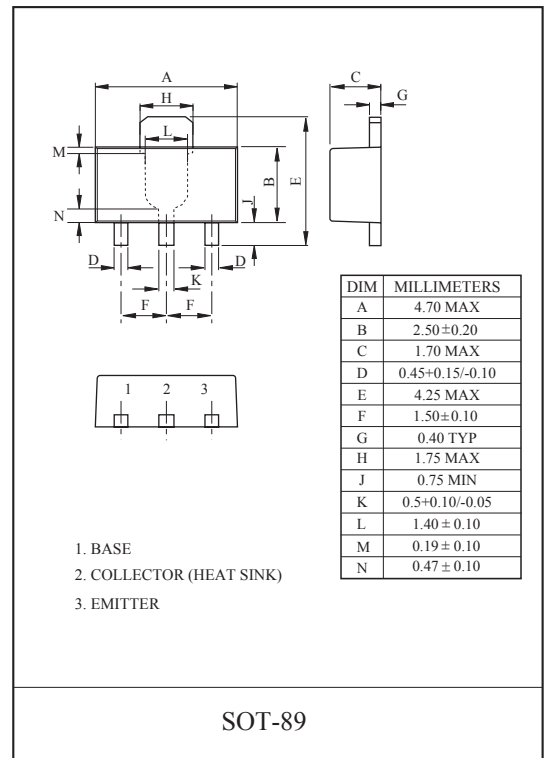
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	I _C	3	A
Collector Current(Pulse)	I _{CP}	6	A
Base Current	I _B	600	mA
Collector Power Dissipation	P _C	500	mW
	P _C *	1	W
Junction Temperature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

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

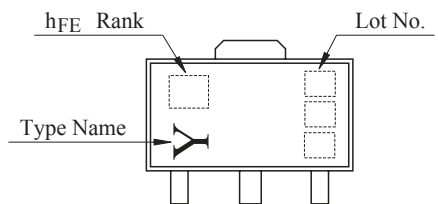
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	-	

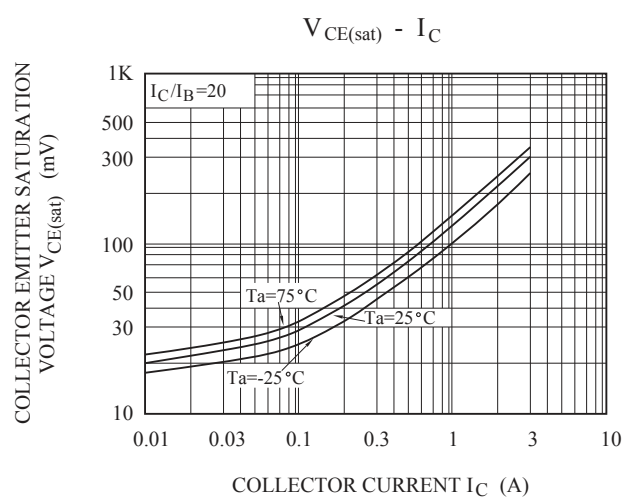
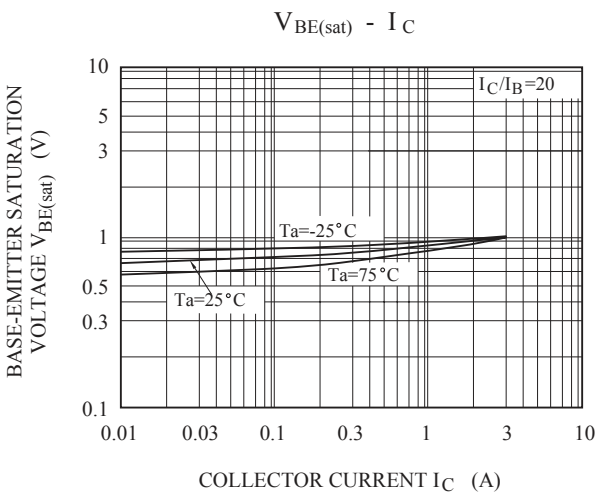
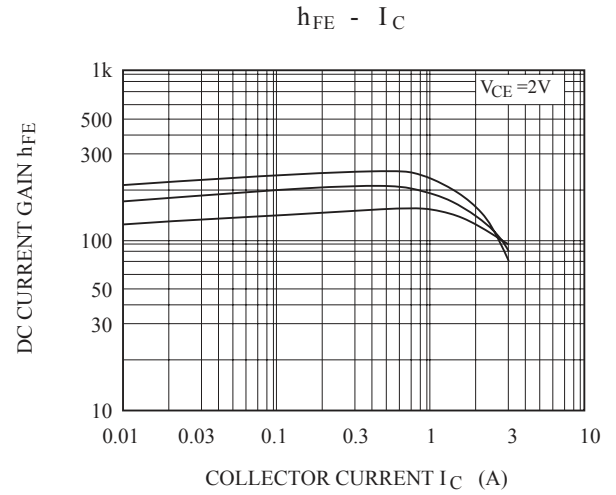
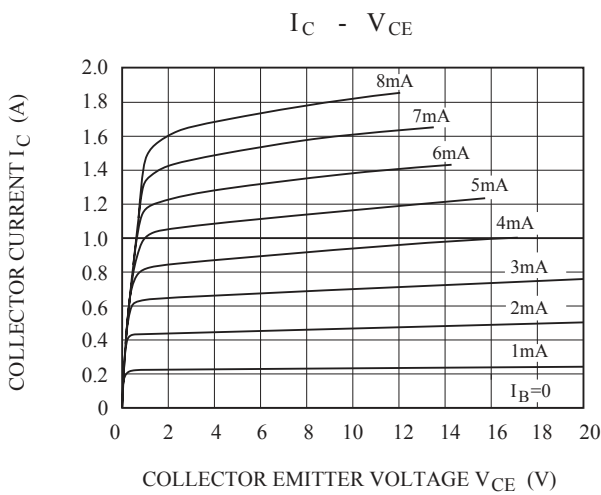
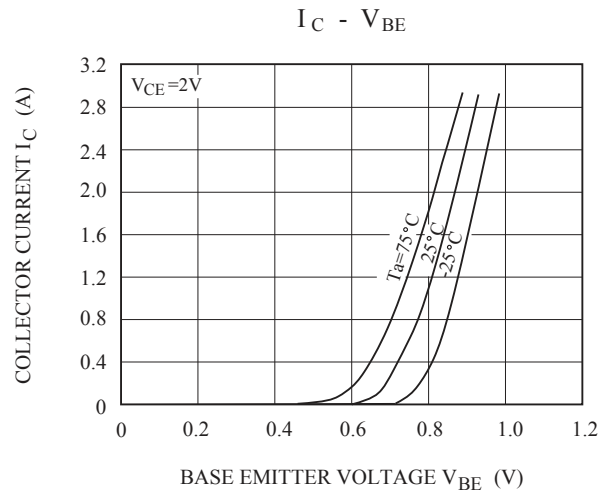
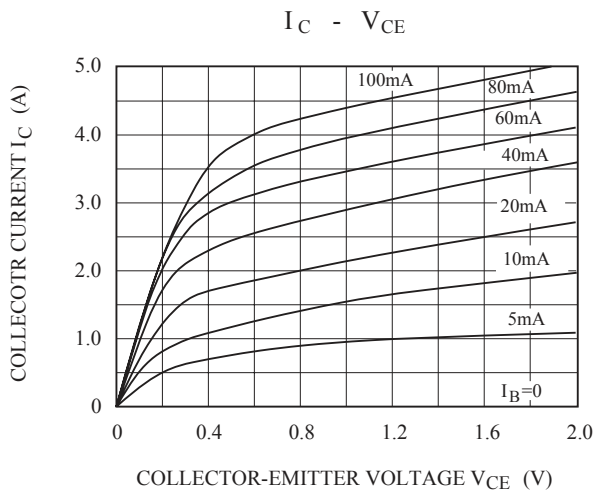
Note : h_{FE}(1) Classification A:100 ~ 200, B:140 ~ 280, C:200 ~ 400



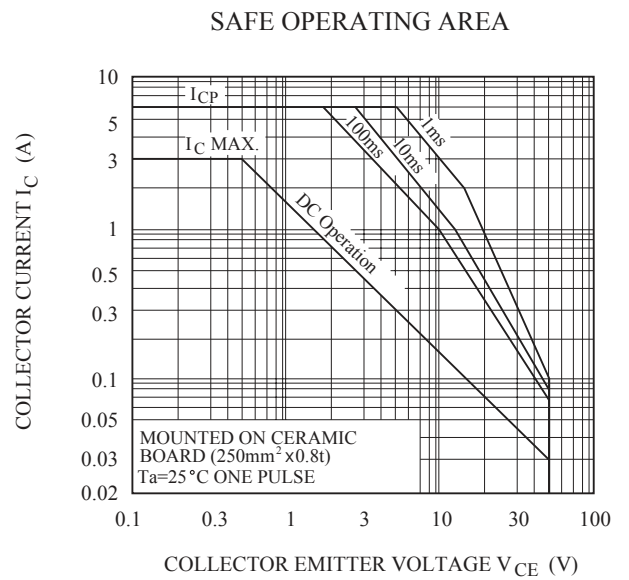
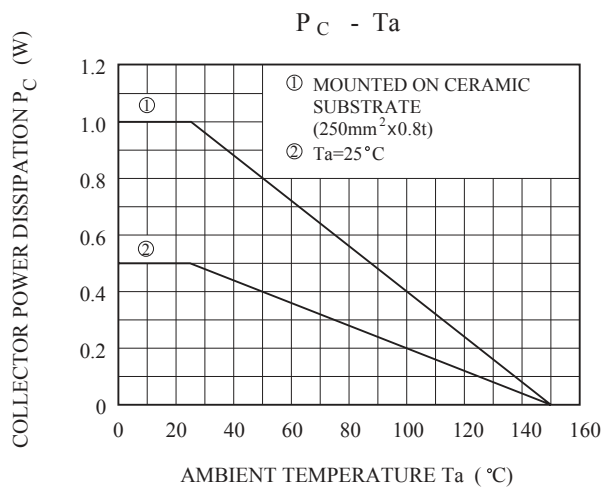
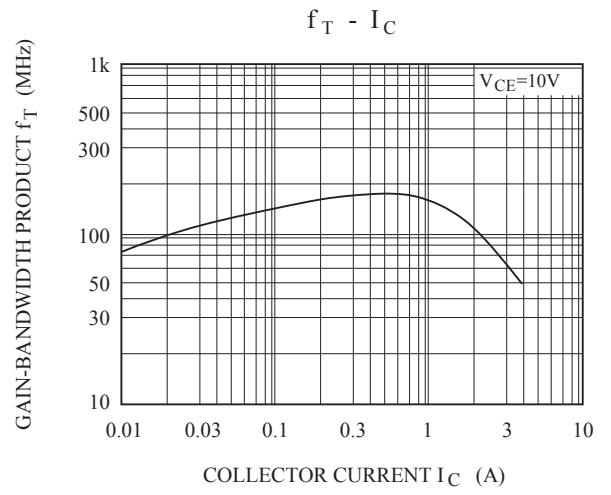
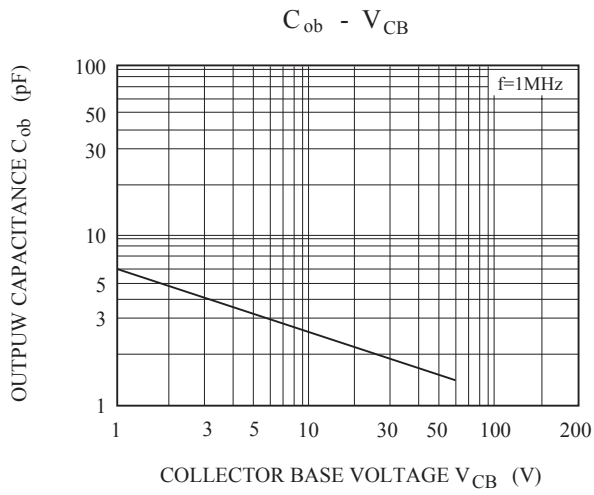
Marking



KTD1624



KTD1624



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1. The products described in this data are intended to be used in general-purpose electronic equipment (Office equipment, telecommunication equipment, measuring equipment, home appliances)
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