

VOLTAGE REGULATOR, RELAY,
LAMP DRIVER, INDUSTRIAL USE

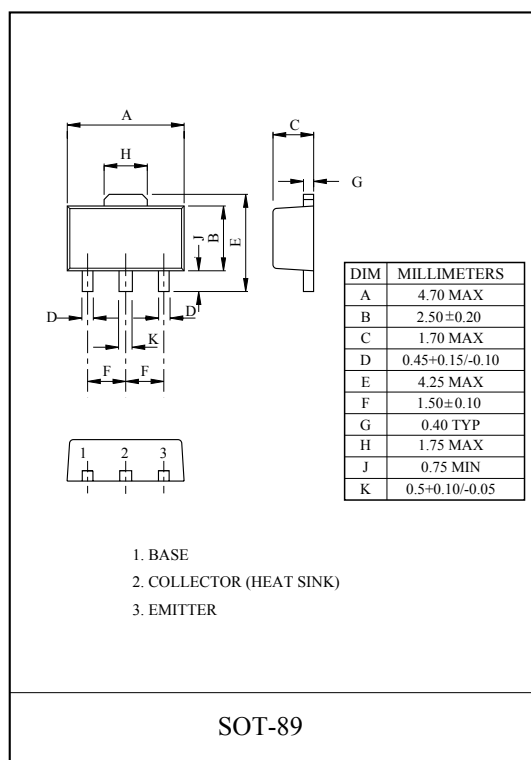
FEATURES

- High Voltage : $V_{CEO}=-60V(\text{Min.})$.
- High Current : $I_C(\text{Max.})=-1A$.
- High Transition Frequency : $f_T=150\text{MHz}(\text{Typ.})$.
- Wide Area of Safe Operation.
- Complementary to KTC4378.

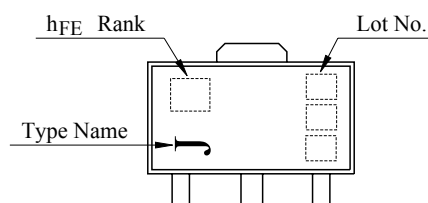
MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-80	V
Collector-Emitter Voltage		V_{CEO}	-60	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-1	A
	Pulse	I_{CP}	-2	
Collector Power Dissipation		P_C	500	mW
		P_C^*	1	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

P_C^* : Package mounted on ceramic substrate (250mm²x0.8t)



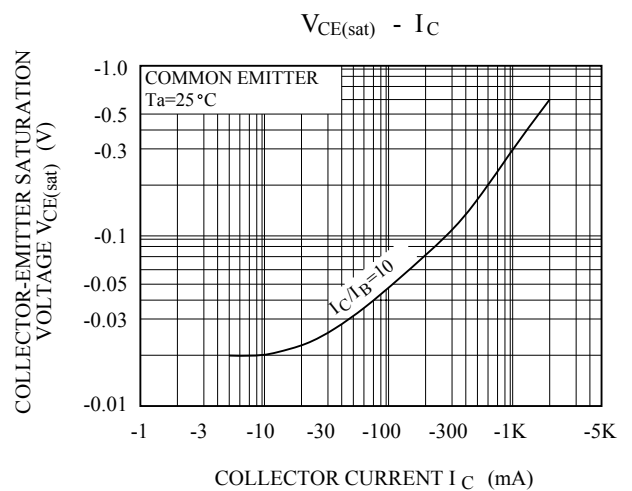
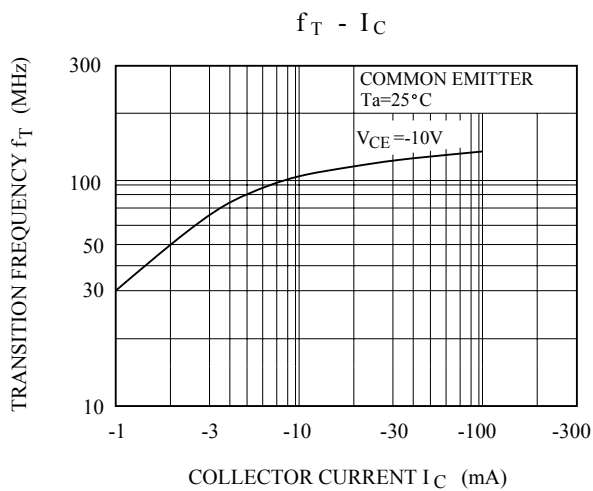
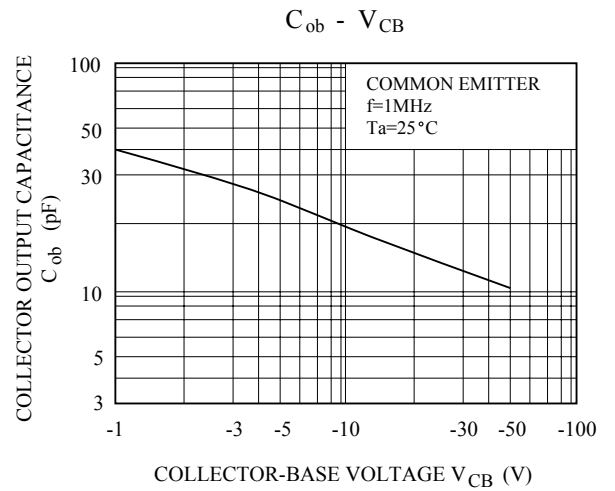
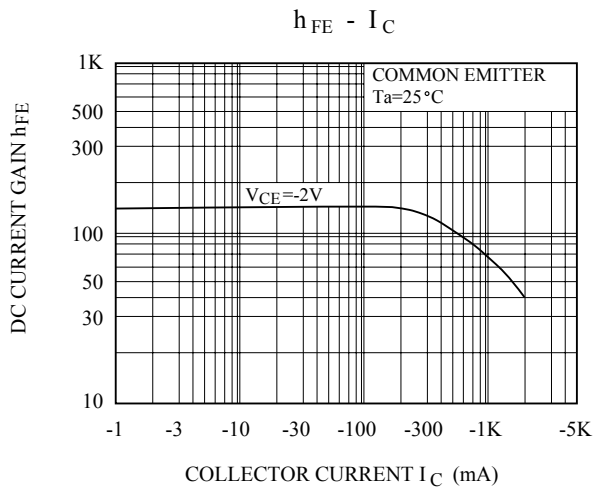
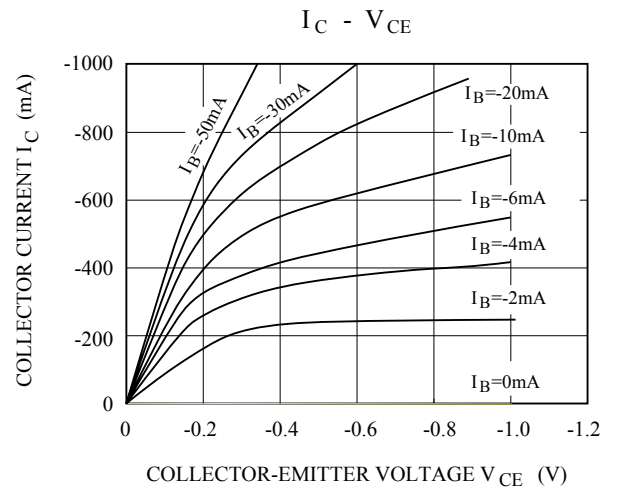
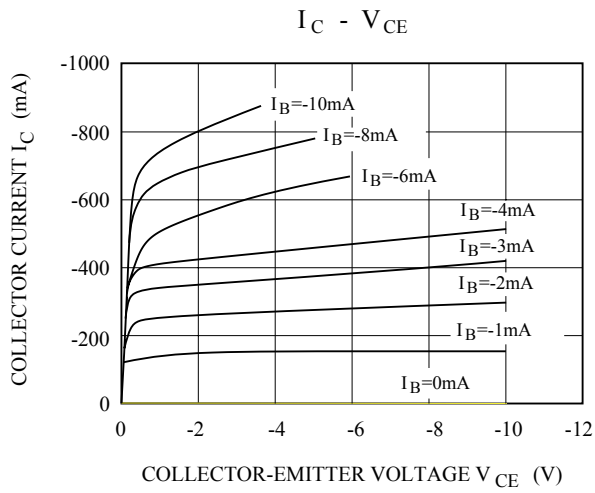
Marking



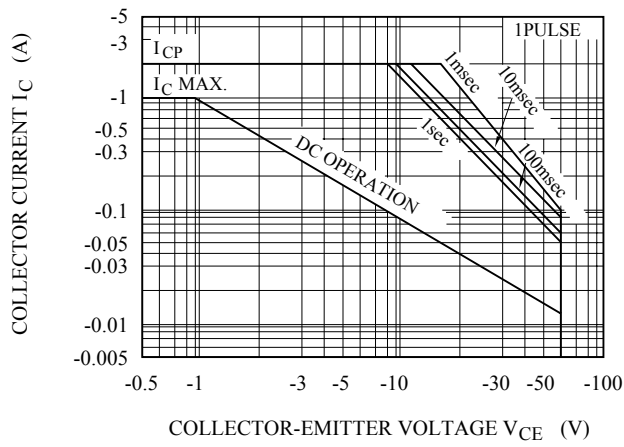
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-50V, I_E=0$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-4V, I_C=0$	-	-	-100	nA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=-2V, I_C=-50mA$	60	-	200	
	$h_{FE}(2)$	$V_{CE}=-2V, I_C=-1A$	30	-	-	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-60	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$	-	-0.2	-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-500mA, I_B=-50mA$	-	-0.85	-1.2	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-50mA$	-	150	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, f=1MHz$	-	12	-	pF

Note : $h_{FE}(1)$ Classification O:60 ~ 120, Y:100 ~ 200



SAFE OPERATING AREA



$P_C - T_a$

