

VOLTAGE REGULATOR, RELAY,
LAMP DRIVER, INDUSTRIAL USE

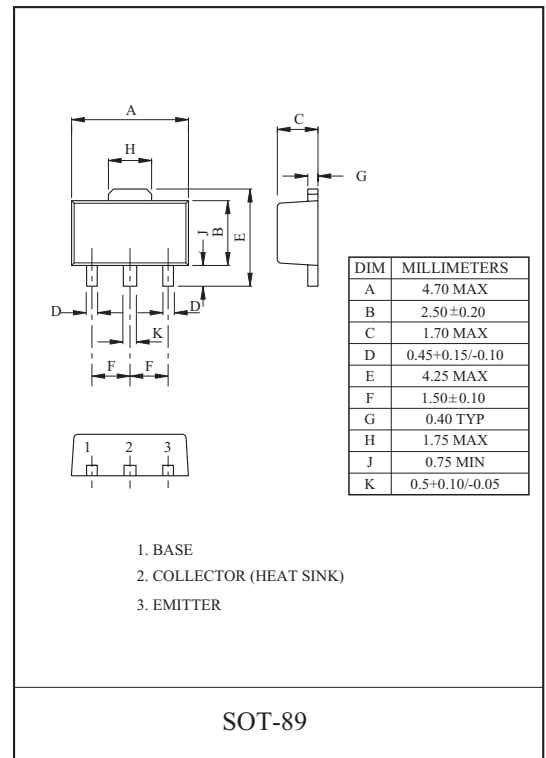
FEATURES

- 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.

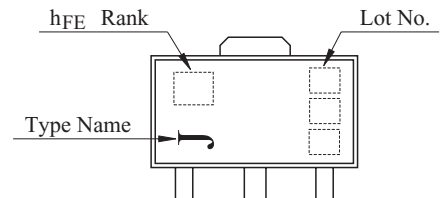
MAXIMUM RATING ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-55 ~ 150	$^\circ\text{C}$

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



Marking

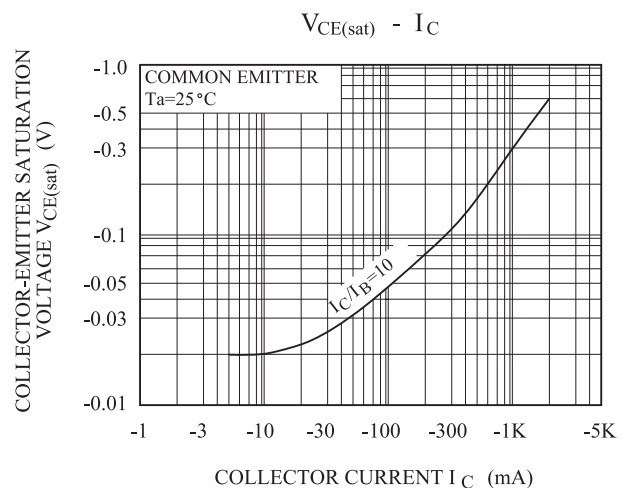
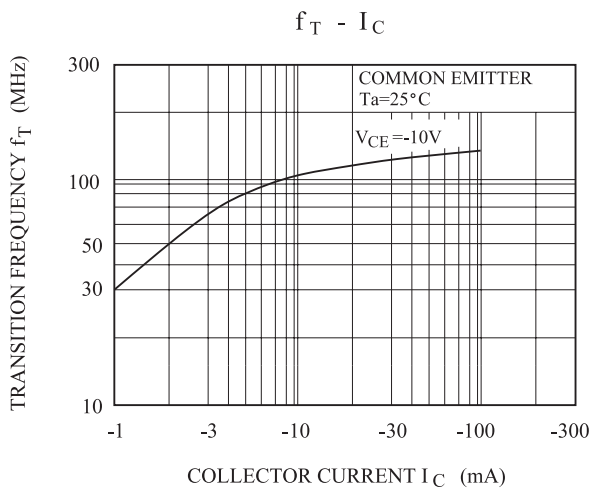
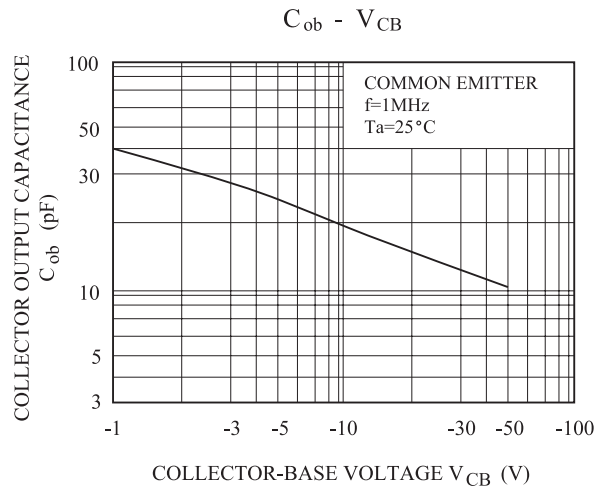
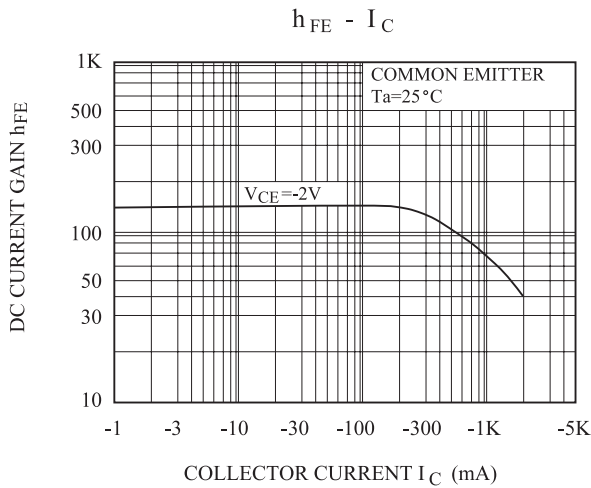
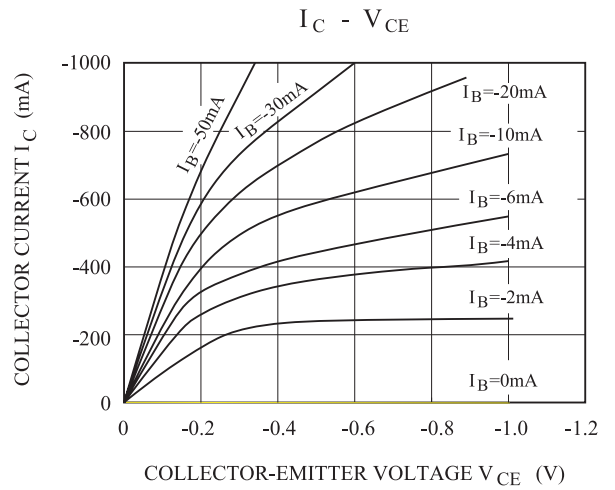
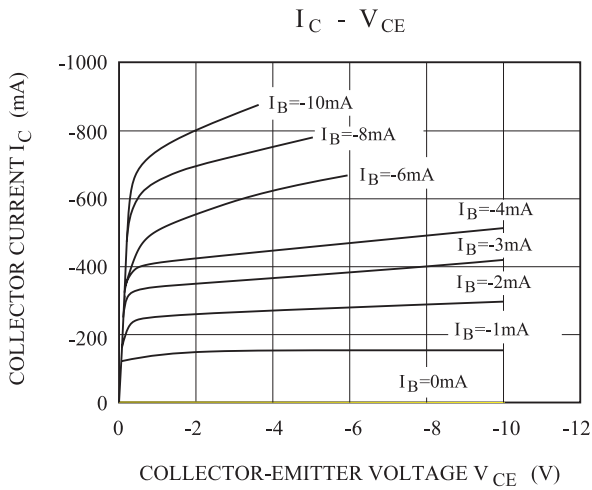


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

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	$h_{FE(1)}$	$V_{CE} = -2V, I_C = -50\text{mA}$	120	-	200	
	$h_{FE(2)}$	$V_{CE} = -2V, I_C = -1A$	30	-	-	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1\text{mA}, I_B = 0$	-60	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	-	-0.2	-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	-	-0.85	-1.2	V
Transition Frequency	f_T	$V_{CE} = -10V, I_C = -50\text{mA}$	-	150	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, f = 1\text{MHz}$	-	12	-	pF

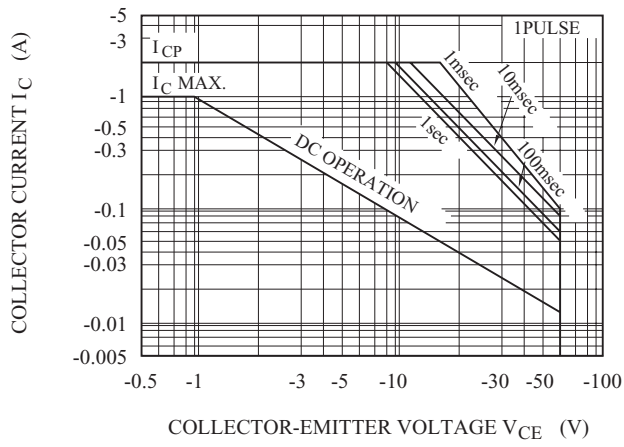
Note : $h_{FE(1)}$ Classification O:60 ~ 120, Y:120 ~ 200

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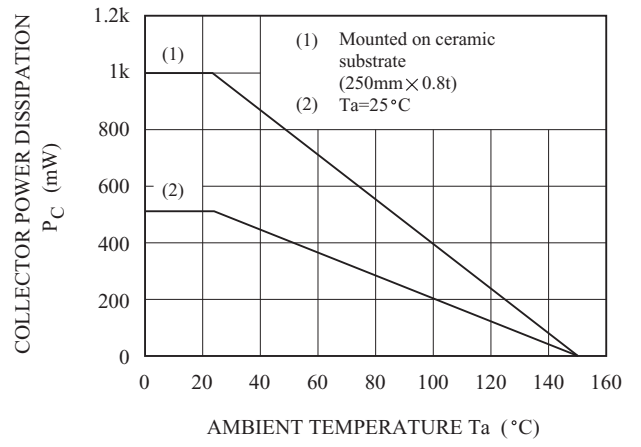


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SAFE OPERATING AREA



$P_C - T_a$



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