

VOLTAGE REGULATOR, RELAY,
LAMP DRIVER, INDUSTRIAL USE

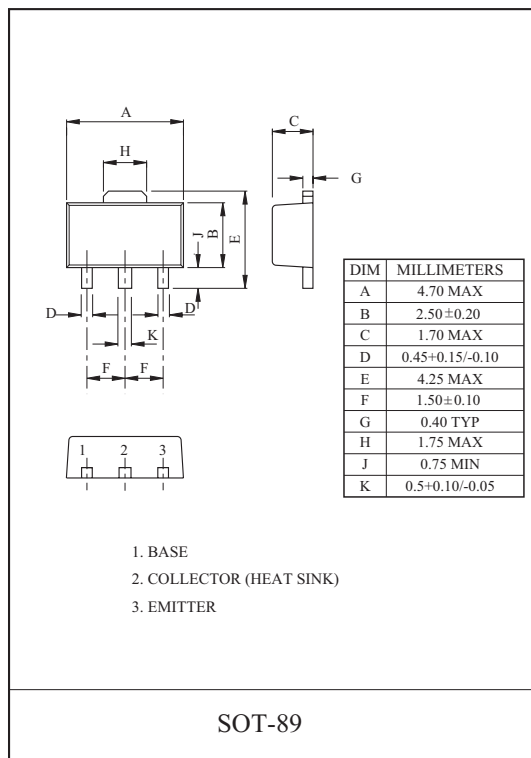
FEATURES

- 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 KTA1668.

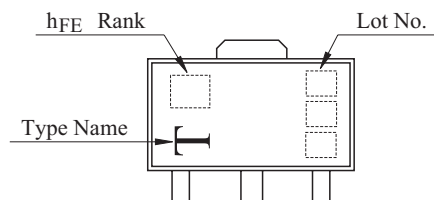
MAXIMUM RATING ($T_a=25^\circ\text{C}$)

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	
Storage Temperature Range		T_{stg}	-55 150	

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



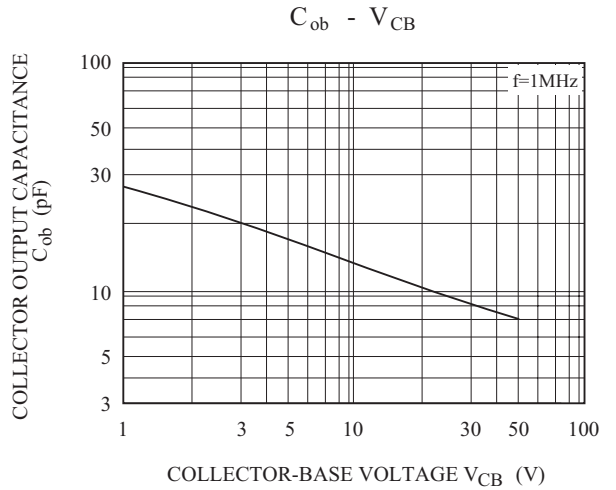
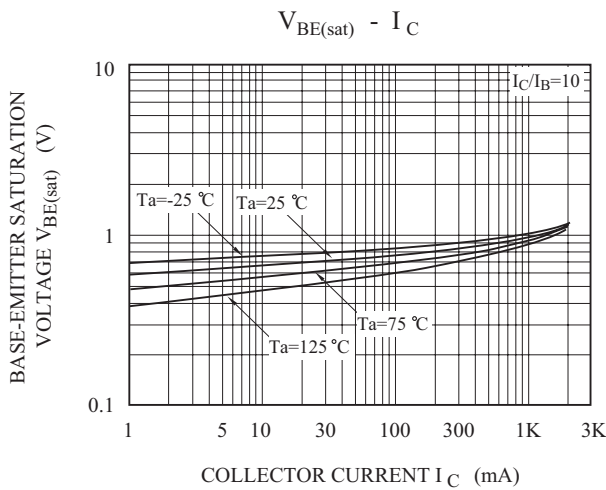
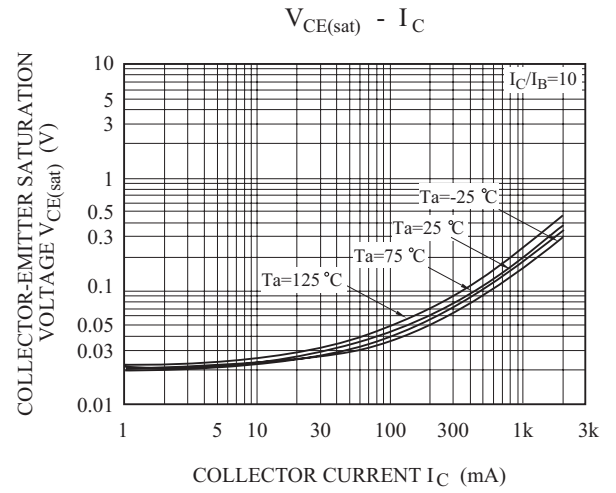
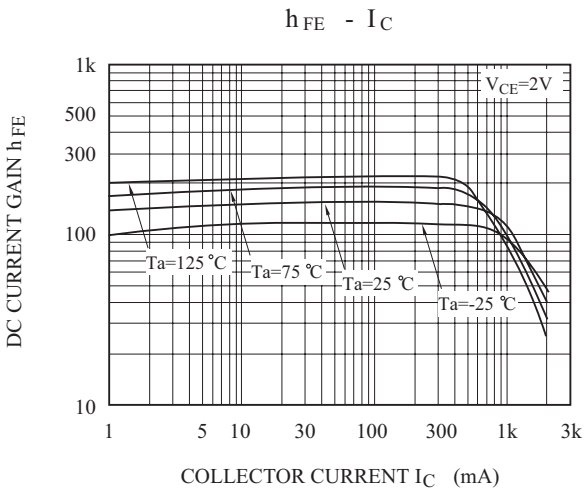
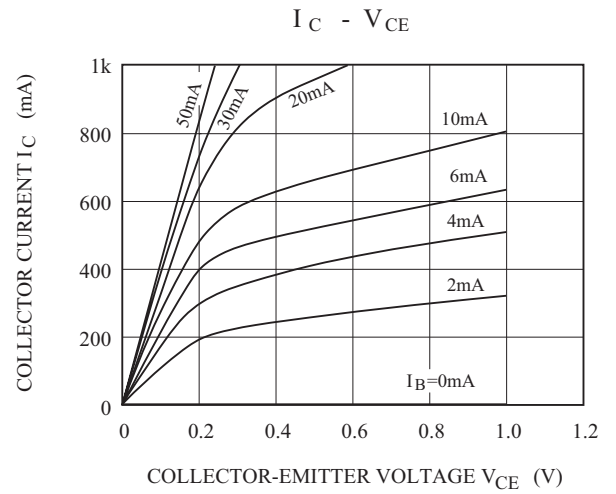
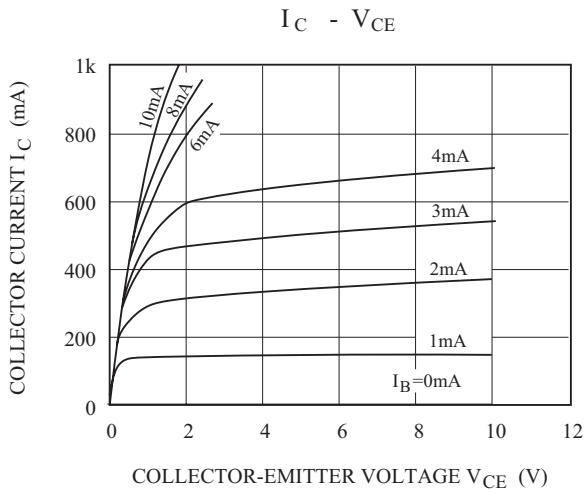
Marking



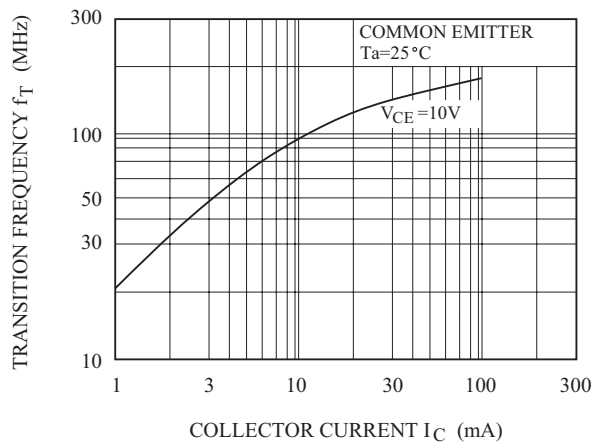
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

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	-	320	
	$h_{FE}(2)$	$V_{CE}=2V, I_C=1A$	30	-	-	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	60	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$	-	0.15	0.5	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

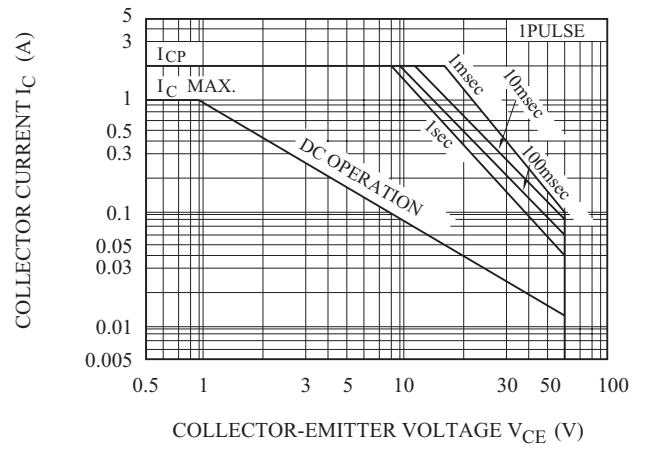
Note : $h_{FE}(1)$ Classification Y:120 200, GR:160~320



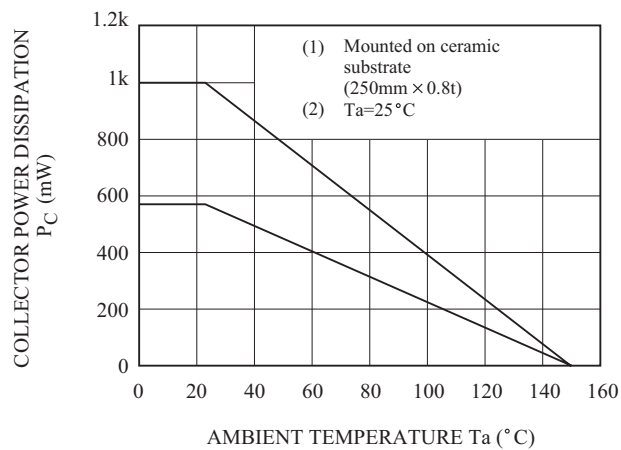
$f_T - I_C$



SAFE OPERATING AREA



$P_C - T_a$



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT](#) ***category:***

Click to view products by [KEC](#) ***manufacturer:***

Other Similar products are found below :

[MCH4017-TL-H](#) [MMBT-2369-TR](#) [NJVMJD148T4G](#) [NTE16](#) [NTE195A](#) [2N4401-A](#) [2N6728](#) [2SB1204S-TL-E](#) [2SC4731T-AY](#) [2SC5488A-TL-H](#) [FMC5AT148](#) [2N2369ADCSM](#) [2N2907A](#) [2N3904-NS](#) [2SB1324-TD-E](#) [2SC5231C8-TL-E](#) [CPH6501-TL-E](#) [BULD128DT4](#) [CPH6021-TL-H](#) [MCH6102-TL-E](#) [2N3879](#) [NTE13](#) [NTE282](#) [NTE350](#) [NTE81](#) [JANSR2N2907AUB](#) [CMLT3946EG TR](#) [SNSS40600CF8T1G](#) [CMLT3906EG TR](#) [GRP-DATA-JANS2N2907AUB](#) [GRP-DATA-JANS2N2222AUA](#) [MMDT3946FL3-7](#) [2N4240](#) [JANS2N3019](#) [MSB30KH-13](#) [2N2221AUB](#) [2SD1815T-TL-E](#) [Jantxv2N3810](#) [2N6678](#) [2N2907Ae4](#) [2N3963](#) [Jantx2N5415](#) [SMBT35200MT1G](#) [SMMJT350T1G](#) [NSVDTA113EM3T5G](#) [MBT3904DW1T1H](#) [CPH6102-TL-E](#) [CPH3245-TL-E](#) [2SD1628F-TD-E](#) [15C01SS-TL-E](#)