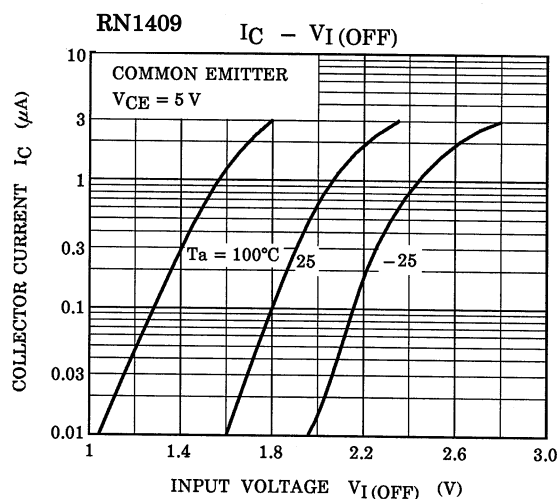
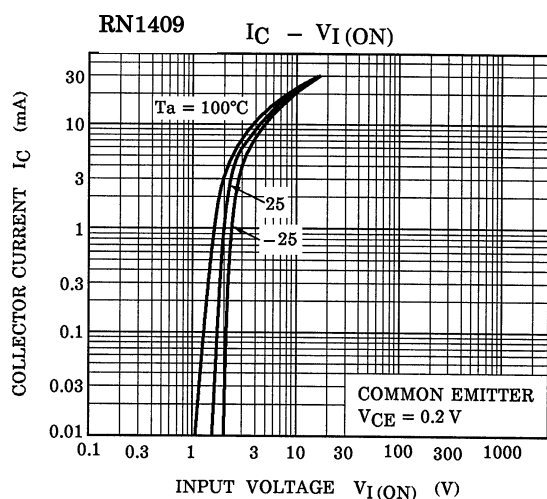
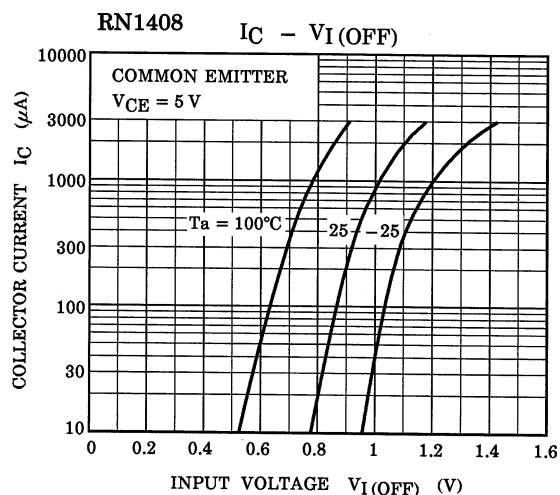
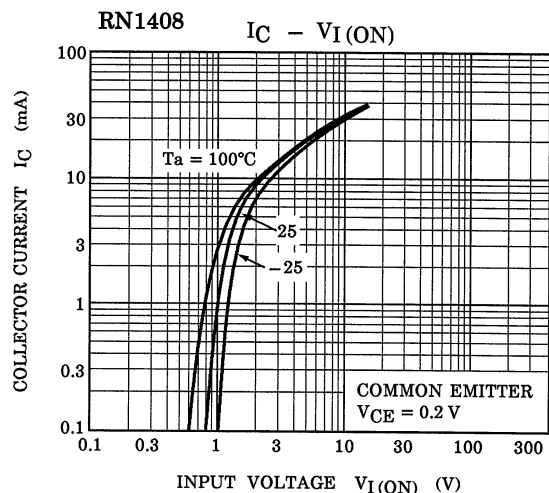
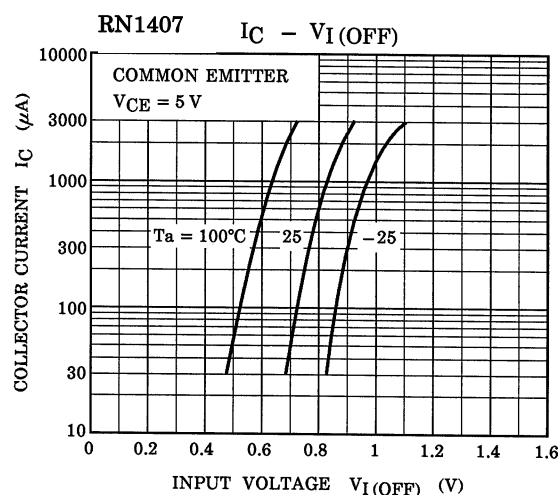
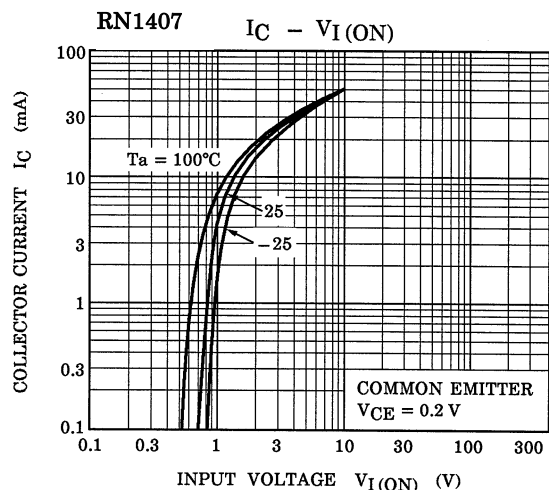
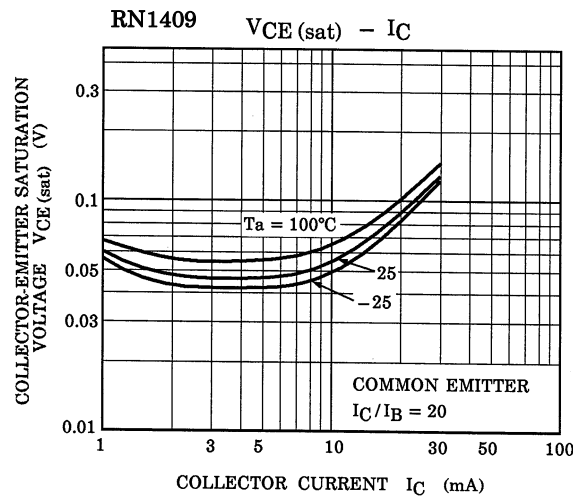
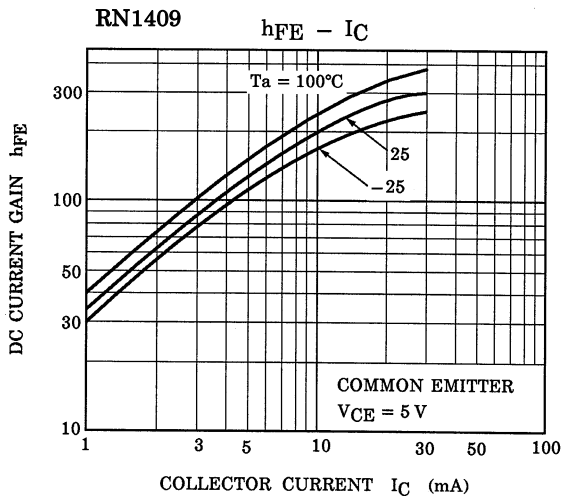
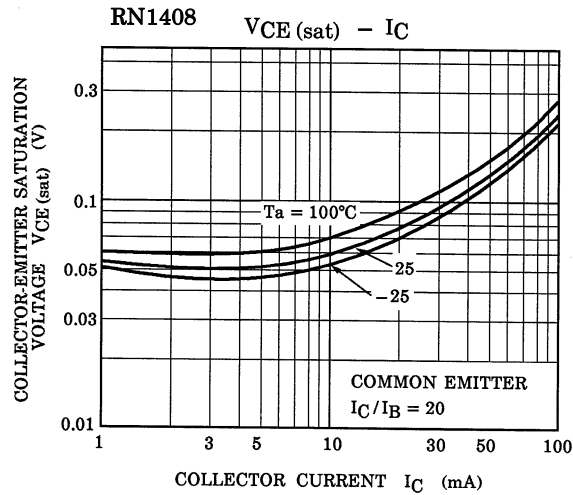
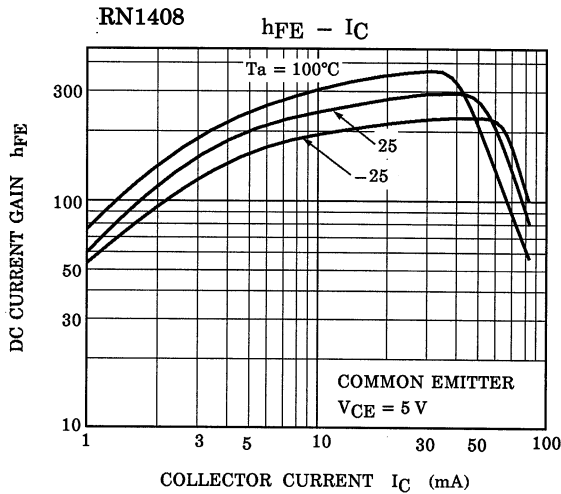
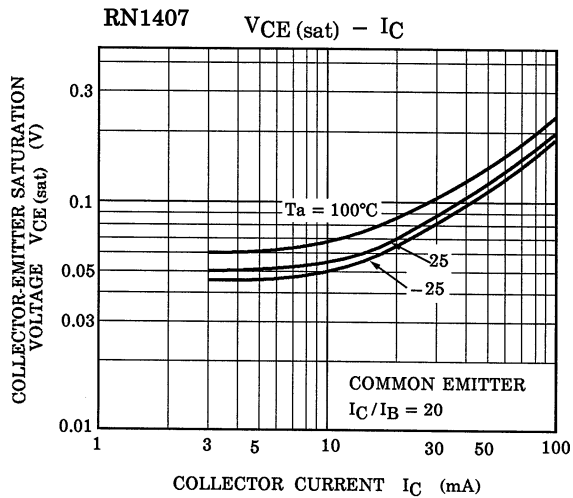
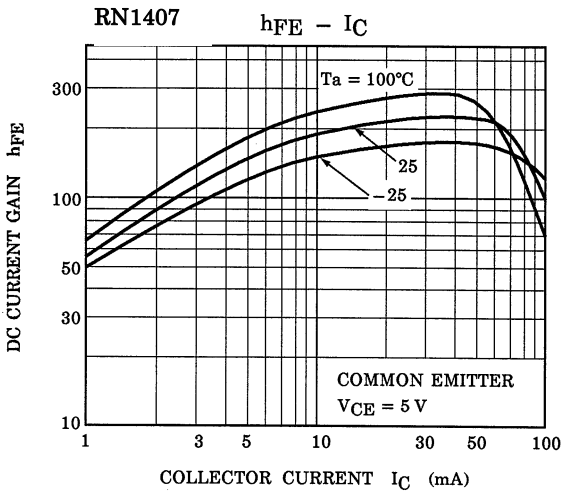
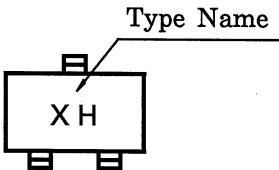
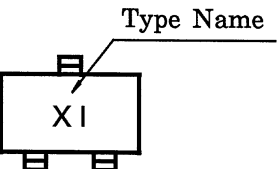
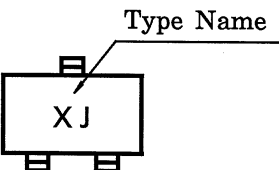


**Electrical Characteristics (Ta = 25°C)**

Characteristic		Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	RN1407 to 1409	$I_{CBO}$	—	$V_{CB} = 50\text{ V}, I_E = 0$	—	—	100	nA
		$I_{CEO}$		$V_{CE} = 50\text{ V}, I_B = 0$	—	—	500	
Emitter cut-off current	RN1407	$I_{EBO}$	—	$V_{EB} = 6\text{ V}, I_C = 0$	0.081	—	0.15	mA
	RN1408			$V_{EB} = 7\text{ V}, I_C = 0$	0.078	—	0.145	
	RN1409			$V_{EB} = 15\text{ V}, I_C = 0$	0.167	—	0.311	
DC current gain	RN1407	$h_{FE}$	—	$V_{CE} = 5\text{ V}, I_C = 10\text{ mA}$	80	—	—	—
	RN1408				80	—	—	
	RN1409				70	—	—	
Collector-emitter saturation voltage	RN1407 to 1409	$V_{CE(sat)}$	—	$I_C = 5\text{ mA}, I_B = 0.25\text{ mA}$	—	0.1	0.3	V
Input voltage (ON)	RN1407	$V_{I(ON)}$	—	$V_{CE} = 0.2\text{ V}, I_C = 5\text{ mA}$	0.7	—	1.8	V
	RN1408				1.0	—	2.6	
	RN1409				2.2	—	5.8	
Input voltage (OFF)	RN1407	$V_{I(OFF)}$	—	$V_{CE} = 5\text{ V}, I_C = 0.1\text{ mA}$	0.5	—	1.0	V
	RN1408				0.6	—	1.16	
	RN1409				1.5	—	2.6	
Transition frequency	RN1407 to 1409	$f_T$	—	$V_{CE} = 10\text{ V}, I_C = 5\text{ mA}$	—	250	—	MHz
Collector Output capacitance	RN1407 to 1409	$C_{ob}$	—	$V_{CB} = 10\text{ V}, I_E = 0,$ $f = 1\text{ MHz}$	—	3	6	pF
Input resistor	RN1407	R1	—	—	7	10	13	kΩ
	RN1408				15.4	22	28.6	
	RN1409				32.9	47	61.1	
Resistor ratio	RN1407	R1/R2	—	—	0.191	0.213	0.232	—
	RN1408				0.421	0.468	0.515	
	RN1409				1.92	2.14	2.35	





Type No.	Marking
RN1407	
RN1408	
RN1409	

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