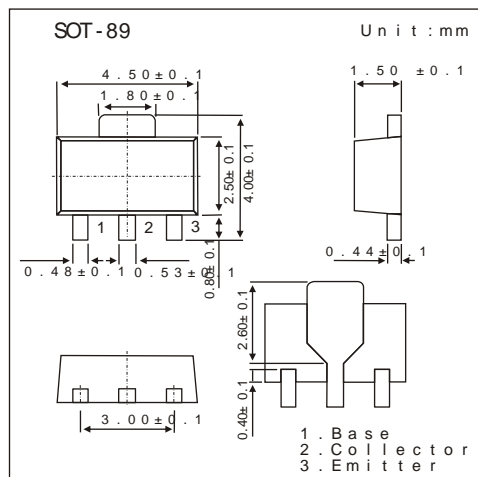


2SB806

Features

High collector to emitter voltage: $V_{CE0} > -120V$.



Absolute Maximum Ratings $T_a = 25$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	-120	V
Collector-emitter voltage	V_{CE0}	-120	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_c	-0.7	A
Collector current (pulse) *1	$I_{c(pu)}$	-1.2	A
Collector power dissipation	P_c	2	W
Junction temperature	T_j	150	
Storage temperature	T_{stg}	-55 to +150	

*1. PW 10ms, duty cycle 50%

Electrical Characteristics $T_a = 25$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CB0}	$V_{CB} = -120V, I_E = 0$			-100	nA
Emitter cutoff current	I_{EB0}	$V_{EB} = -5V, I_C = 0$			-100	nA
DC current gain *	h_{FE}	$V_{CE} = -1V, I_C = -100mA$	90	200	400	
		$V_{CE} = -1V, I_C = -5.0mA$	45	200		
Collector-emitter saturation voltage *	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$		-0.4	-0.6	V
Base-emitter saturation voltage *	$V_{BE(sat)}$	$I_C = -500mA, I_B = -50mA$		-0.9	-1.5	V
Base-emitter voltage *	V_{BE}	$V_{CE} = -10V, I_C = -10mA$	-550	-620	-650	mV
Output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1.0MHz$		14		pF
Transition frequency	f_T	$V_{CE} = -10V, I_E = 10mA$		75		MHz

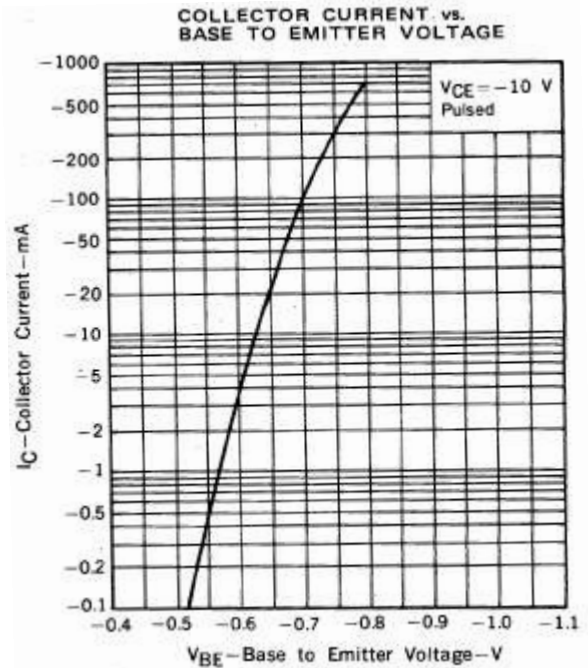
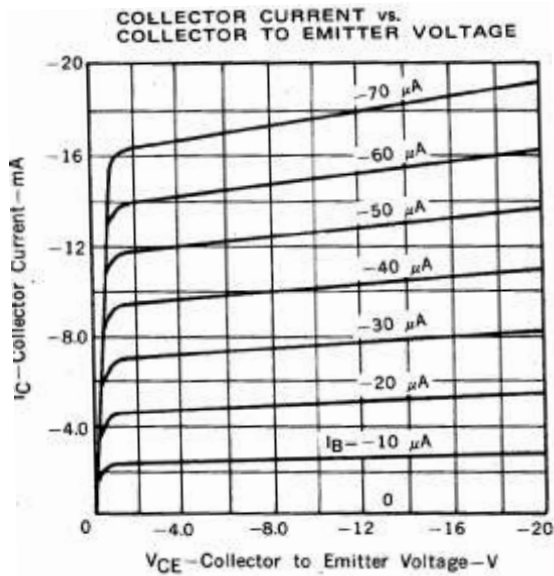
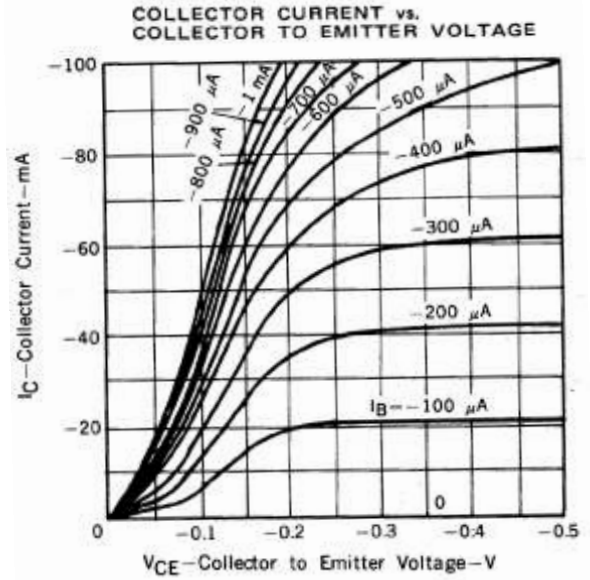
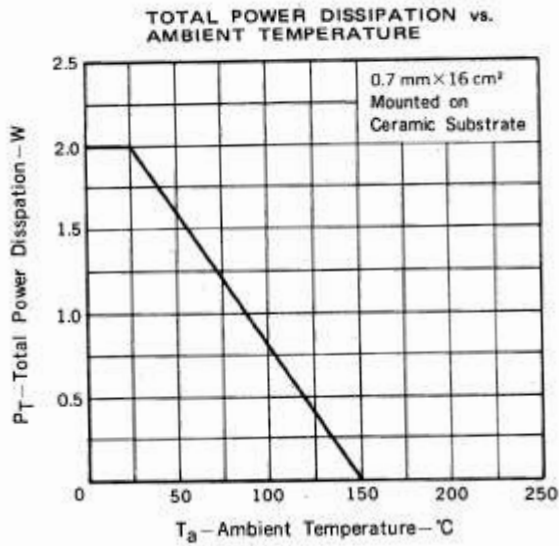
* PW 350μs, duty cycle 2%

h_{FE} Classification

Marking	KR	KQ	KP
h_{FE}	90 ~ 180	135 ~ 270	200 ~ 400



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





2SB806

