

Features:

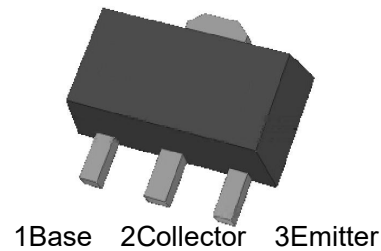
- High current (max. 1 A)
- High voltage (160V)

APPLICATIONS:

- Driver stages of audio and video amplifiers.

DESCRIPTION:

- NPN medium power transistor in a SOT89 package.



ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Units
Collector-Emitter Voltage	V_{CEO}	160	Vdc
Collector-Base Voltage	V_{CBO}	160	Vdc
Emitter-Base Voltage	V_{EBO}	6	Vdc
Collector Current(DC)	I_C	1	Adc
Collector Power Dissipation	P_C	0.5	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

Note:1. Device mounted on a printed-circuit board, single sided copper, tinplated, mounting pad for collector 6 cm².

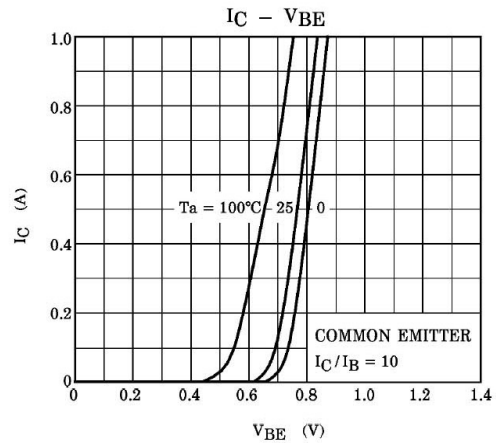
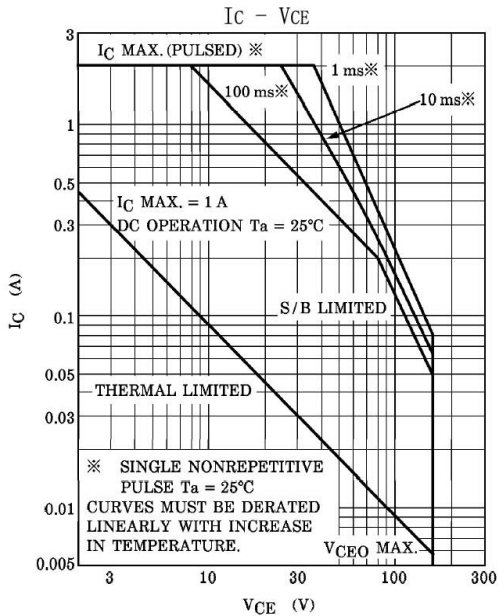
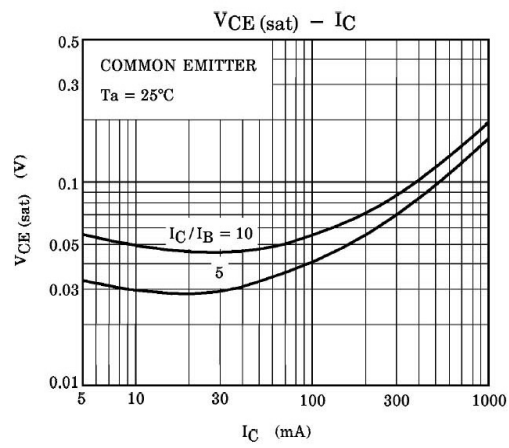
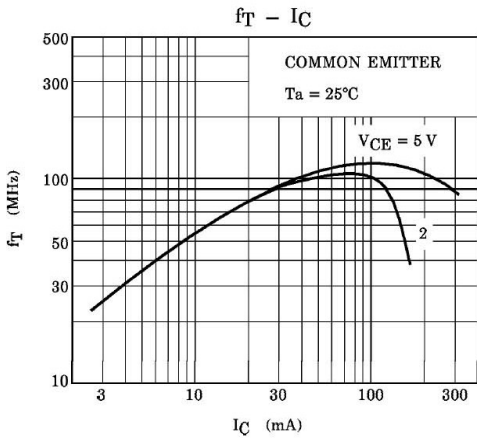
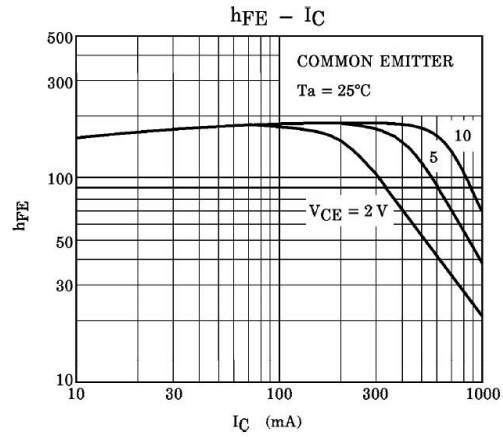
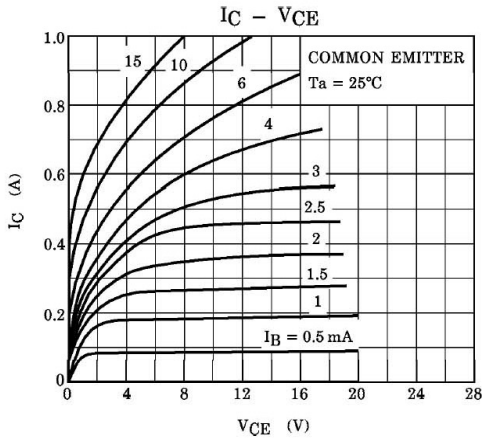
ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}C$ unless otherwise noted)

Characteristic	Symbol	Test Condition	Min	Type	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=150V, I_E=0$	-	-	1	uA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=6V, I_C=0$	-	-	1	uA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=200mA$	100	-	320	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	1	V
Base-Emitter Voltage	V_{BE}	$I_C = 500mA; V_{CE} = 2 V$	-	-	0.75	V
Transition Frequency	f_T	$I_C = 10 mA; V_{CE} = 5 V; f = 100 MHz$	20	-	-	MHZ

hFE

Rank	O	Y
HFE Range	100-200	150-300

Electrical Characteristic Curve



SOT-89 PACKAGE OUTLINE DIMENSIONS

