



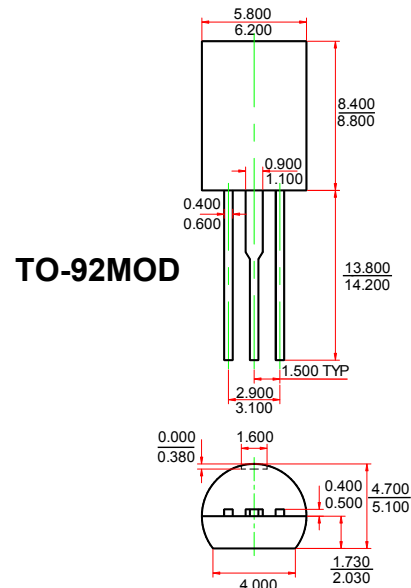
- 1 1. EMITTER
- 2 2. COLLECTOR
- 3 3. BASE

### Features

- ◇ Complementary to 2SA817A
- ◇ Driver Stage Application of 30 to 35 Watts Amplifiers

### MAXIMUM RATINGS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	80	V
$V_{CE0}$	Collector-Emitter Voltage	80	V
$V_{EB0}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current -Continuous	0.4	A
$P_C$	Collector Power Dissipation	0.8	W
$T_j$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55-150	$^{\circ}\text{C}$



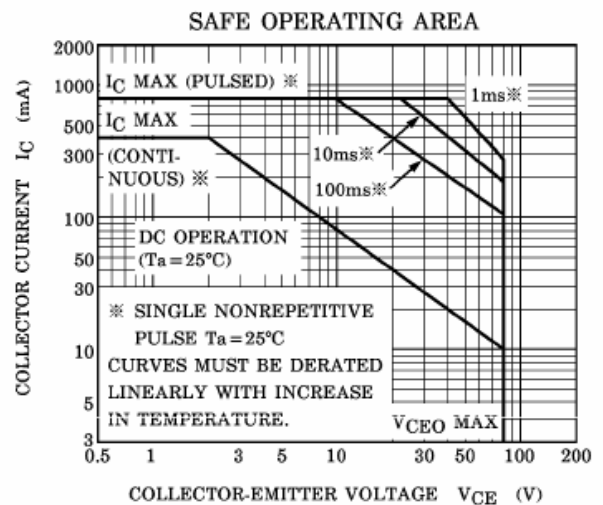
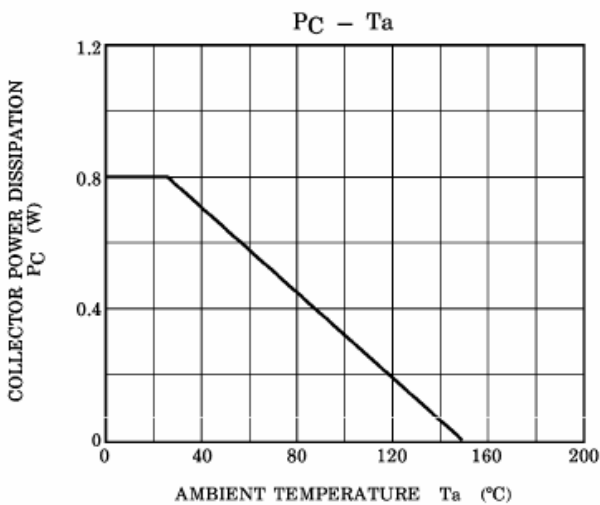
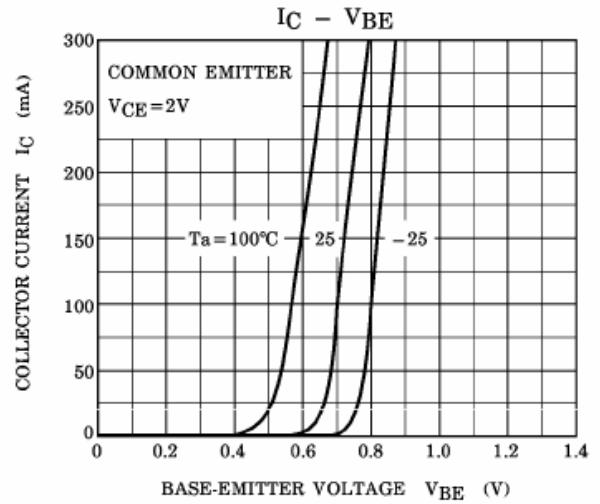
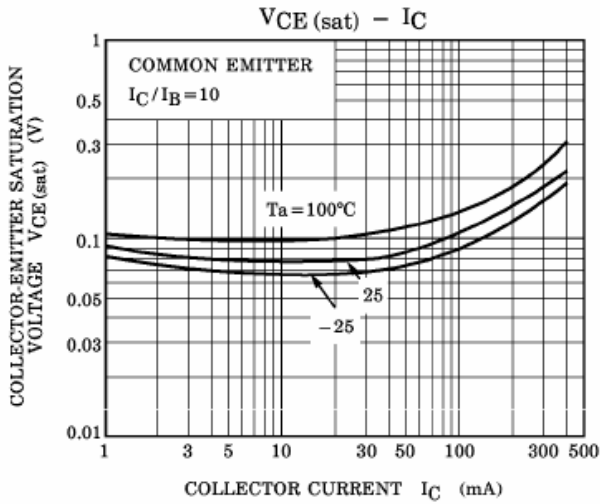
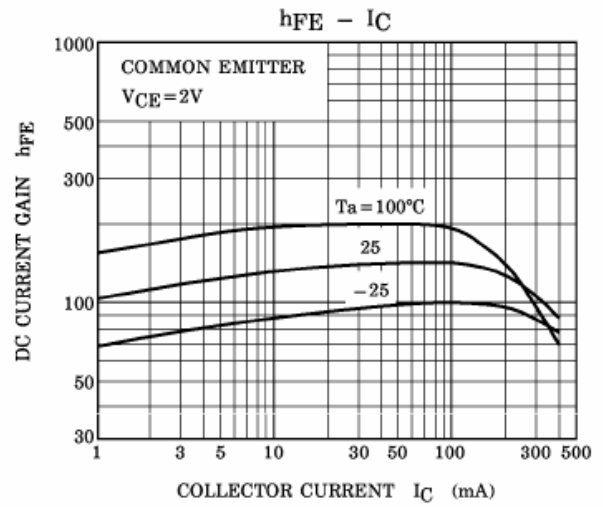
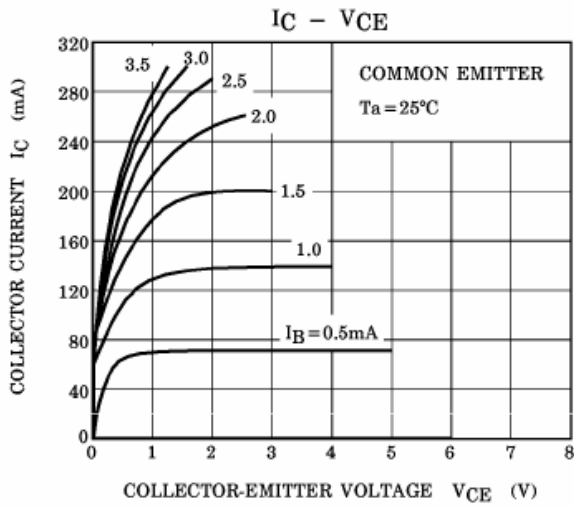
### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C=100\mu\text{A}$ , $I_E=0$	80			V
Collector-emitter breakdown voltage	$V_{(BR)CE0}$	$I_C=5\text{mA}$ , $I_B=0$	80			V
Emitter-base breakdown voltage	$V_{(BR)EB0}$	$I_E=100\mu\text{A}$ , $I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50\text{V}$ , $I_E=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5\text{V}$ , $I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE}=2\text{V}$ , $I_C=50\text{mA}$	70		240	
	$h_{FE(2)}$	$V_{CE}=2\text{V}$ , $I_C=200\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=200\text{mA}$ , $I_B=20\text{mA}$			0.4	V
Base-emitter voltage	$V_{BE(on)}$	$V_{CE}=2\text{V}$ , $I_C=5\text{mA}$	0.55		0.8	V
Transition frequency	$f_T$	$V_{CE}=10\text{V}$ , $I_C=10\text{mA}$		100		MHz

### CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	70-140	120-240

### Typical Characteristics



Package	Packing	Quantity	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92MOD	Bulk	500pcs/BP	5000pcs	245×170×100	50,000pcs	525×375×270
TO-92MOD	Tape	2000pcs/TP	2000pcs	333×245×43	20,000pcs	502×403×300