



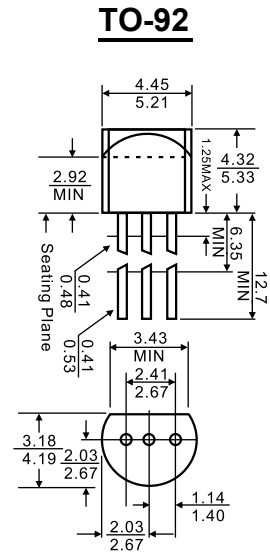
1. EMITTER
2. BASE
3. COLLECTOR

Features

- ✧ Collector dissipation
- ✧ Complement to KSD261

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-20	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-500	mA
P _C	Collector Power Dissipation	500	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



Dimensions in inches and (millimeters)

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100uA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B =0	-20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -10uA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -25 V, I _E =0			-0.2	uA
Emitter cut-off current	I _{EBO}	V _{EB} = -3 V, I _C =0			-0.2	uA
DC current gain	h _{FE} *	V _{CE} = -1 V, I _C = -100mA	40		400	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C = -500mA, I _B =- 50mA			-0.4	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C = -500mA, I _B =- 50mA			-1.3	V

* PULSE TEST

CLASSIFICATION OF h_{FE}

Rank	R	O	Y	G
Range	40-80	70-140	120-240	200-400

Typical Characteristics

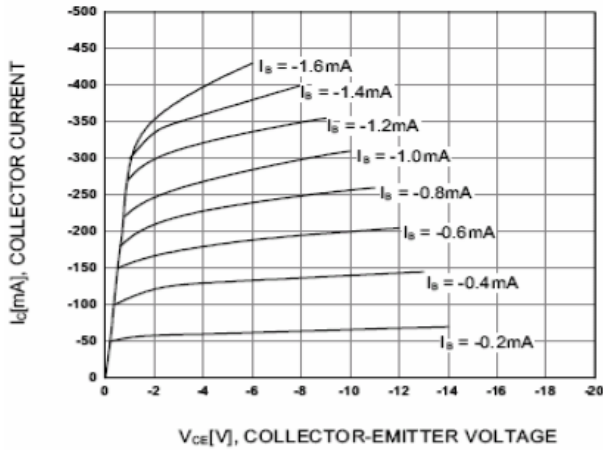


Figure 1. Static Characteristic

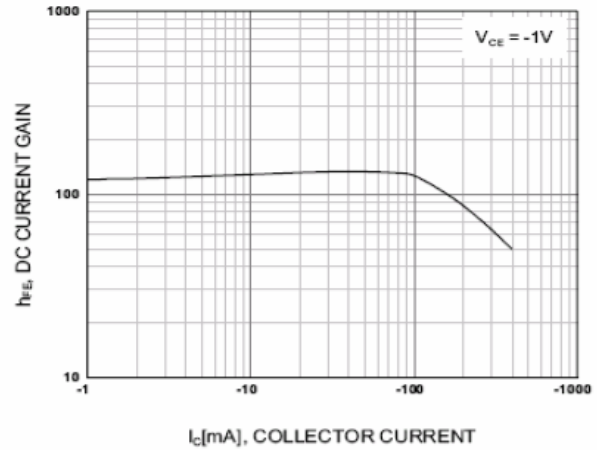


Figure 2. DC current Gain

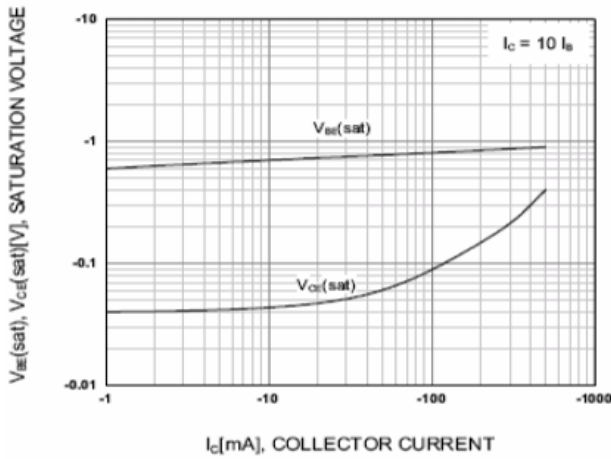


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

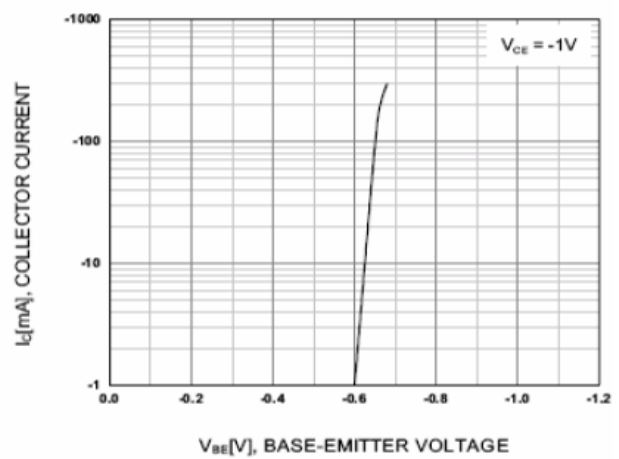


Figure 4. Base-Emitter On Voltage

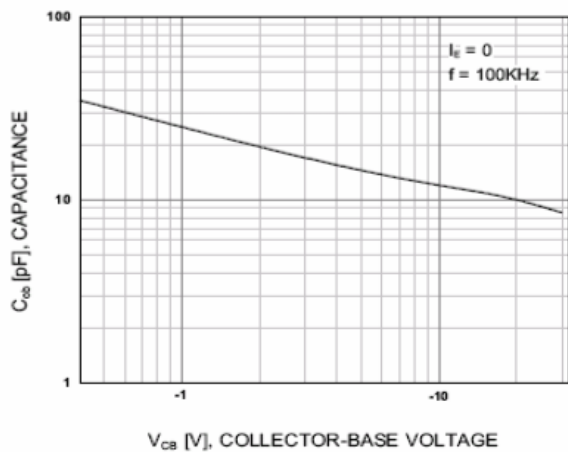


Figure 5. Collector Output Capacitance

Package	Packing	Quantity	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	Bulk	1000pcs/BP	10,000pcs	245×170×100	100,000pcs	525×375×270
TO-92	Tape	2000pcs/TP	2000pcs	333×162×43	20,000pcs	350×340×250