



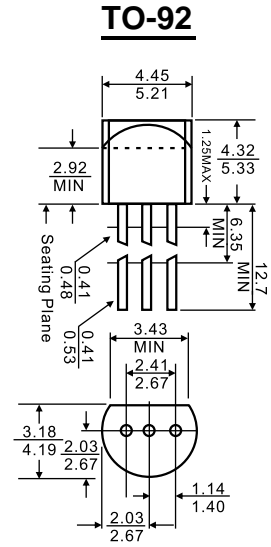
1. EMITTER
2. BASE
3. COLLECTOR

Features

- ◇ Power dissipation

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	600	mA
P _C	Collector Power dissipation	0.625	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55to +150	°C
R _{θJA}	Thermal Resistance, junction to Ambient	357	°C/mW

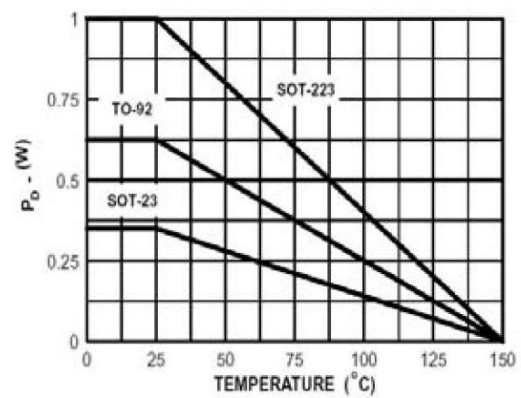
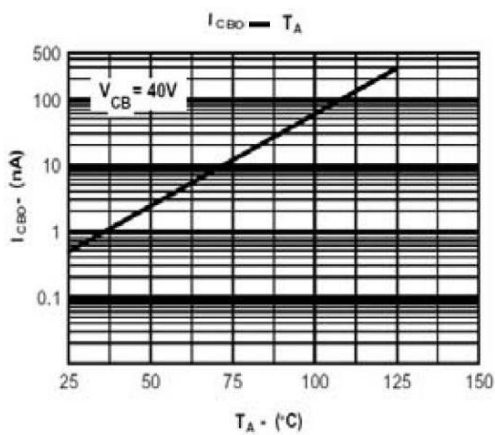
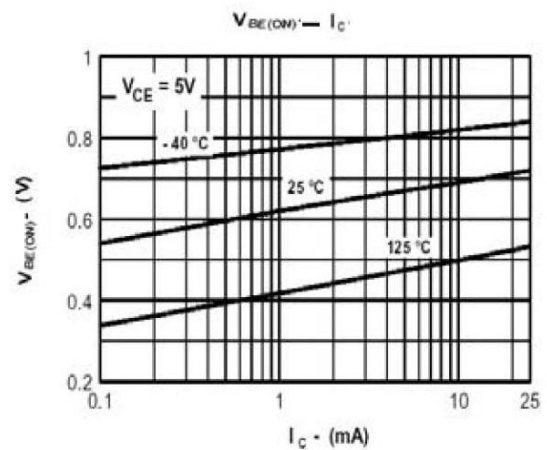
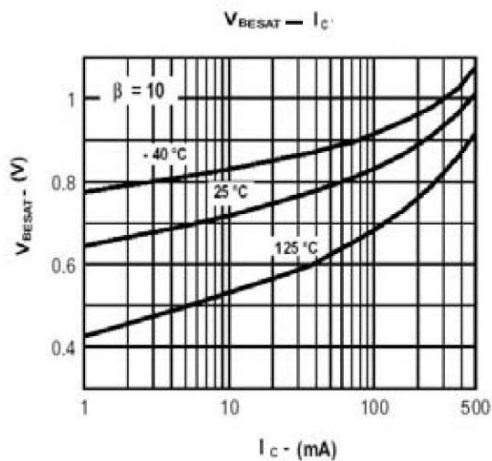
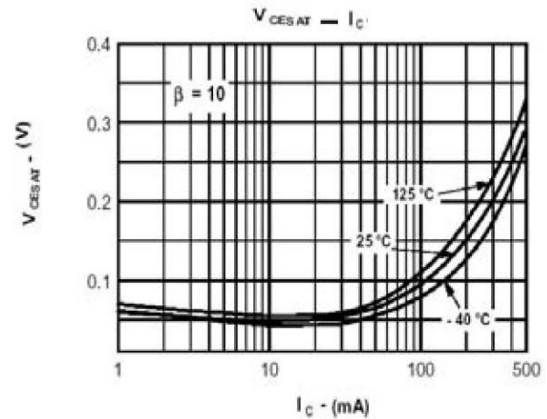
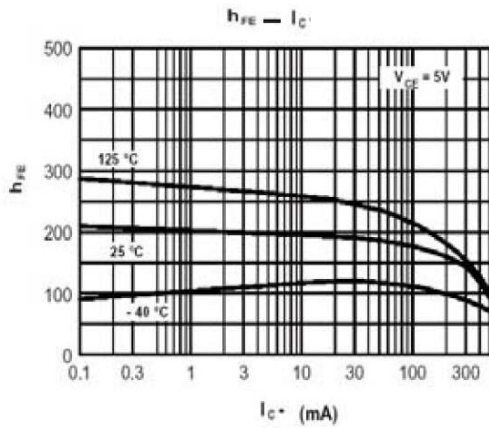


Dimensions in inches and (millimeters)

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =10μA I _E =0				V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _E =10mA I _B =0				V
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =10μA I _C =0	5			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =50V I _E =0			0.01	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5.0V I _C =0			0.1	μA
DC Current Gain	h _{FE}	V _{CE} =10V I _C =150mA	100		300	
Collector-Emitter Saturation Voltage	V _{CE(sat)(1)}	I _C =150mA I _B =15mA			0.4	V
	V _{CE(sat)(2)}	I _C =500mA I _B =50mA			1.6	V
Base-Emitter Saturation Voltage	V _{BE(sat)(1)}	I _C =150mA I _B =15mA			1.3	V
	V _{BE(sat)(2)}	I _C =500mA I _B =50mA			2.6	V
Transition Frequency	f _T	V _{CE} =20V f=100MHz I _C =20mA	250			MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V f=1.0MHz I _E =0			8.0	pF
Turn-On Time	T _{on}	V _{CC} =30V V _{BE} =0.5V I _C =150mA I _{B1} =15mA			35	ns
Turn-Off Time	T _{off}	V _{CC} =30V I _C =150mA I _{B1} =I _{B2} =15mA			285	ns

Typical Characteristics



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