

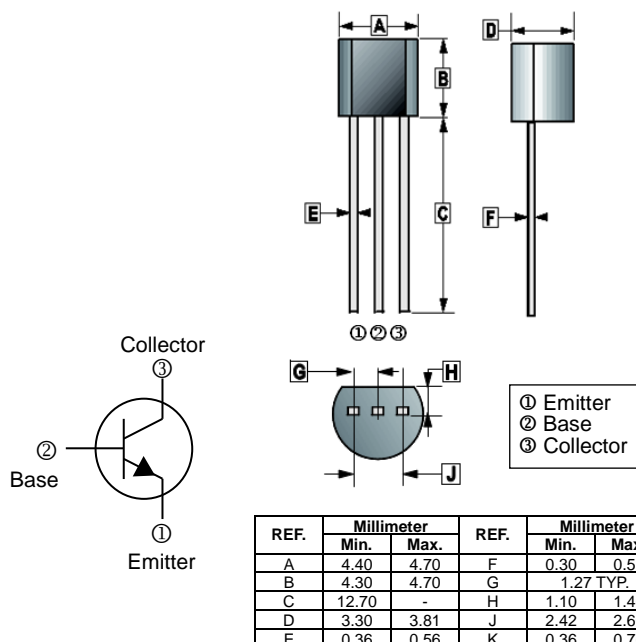
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

High Voltage NPN Transistor

TO-92



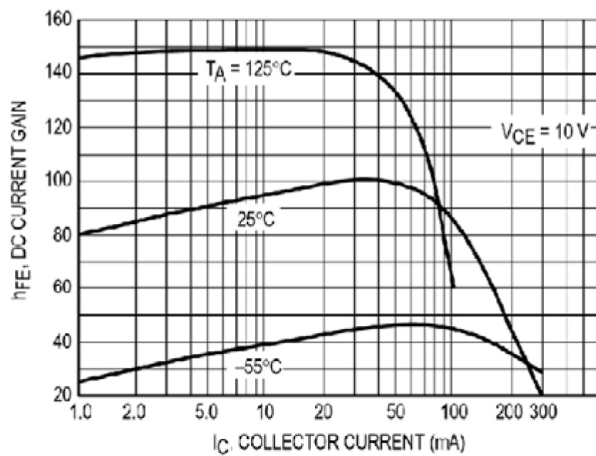
ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage Parameter	V _{CB0}	400	V
Collector to Emitter Voltage	V _{CEO}	400	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current - Continuous	I _C	0.3	A
Collector Power Dissipation	P _C	625	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	200	°C/W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

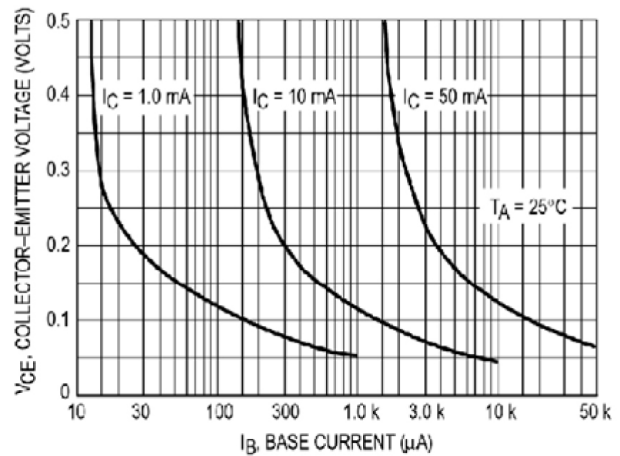
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Collector to Base Breakdown Voltage	V _{(BR)CBO}	400	-	-	V	I _C =100μA, I _E =0
Collector to Emitter Breakdown Voltage ¹	V _{(BR)CEO}	400	-	-	V	I _C =1mA, I _B =0
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	6	-	-	V	I _E =100μA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	-	0.1	μA	V _{CB} =400 V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	0.1	μA	V _{EB} =4V, I _C =0
DC Current Gain	h _{FE(1)}	40	-	-	V	V _{CE} =10V, I _C =1mA
	h _{FE(2)}	50	-	200		V _{CE} =10V, I _C =10mA
	h _{FE(3)}	45	-	-		V _{CE} =10V, I _C =50mA
	h _{FE(4)}	40	-	-		V _{CE} =10V, I _C =100mA
Collector to Emitter Saturation Voltage	V _{CE(sat)(1)}	-	-	0.4	V	I _C =1mA, I _B =0.1mA
	V _{CE(sat)(2)}	-	-	0.5		I _C =10mA, I _B =1mA
Base to Emitter Voltage	V _{BE(sat)}	-	-	0.75	V	I _C =10mA, I _B =1mA
	f _T	50	-	-	MHz	V _{CE} =20V, I _C =10mA, f=30MHz

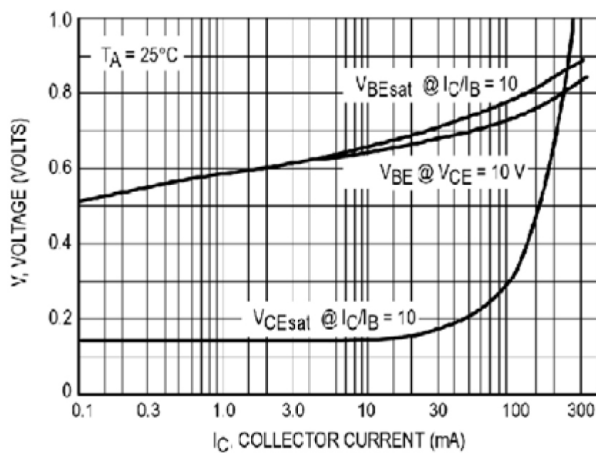
CHARACTERISTIC CURVES



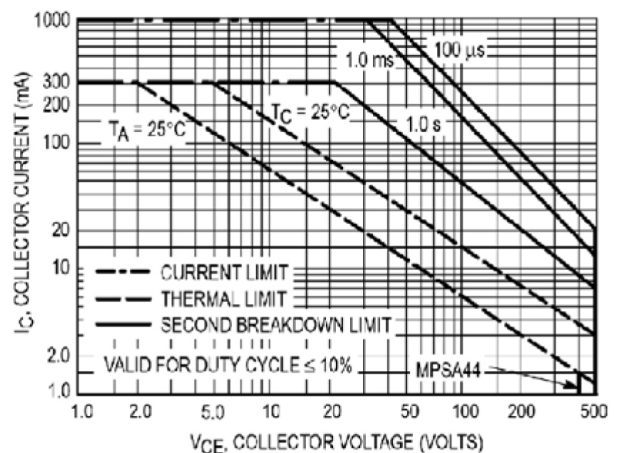
DC Current Gain



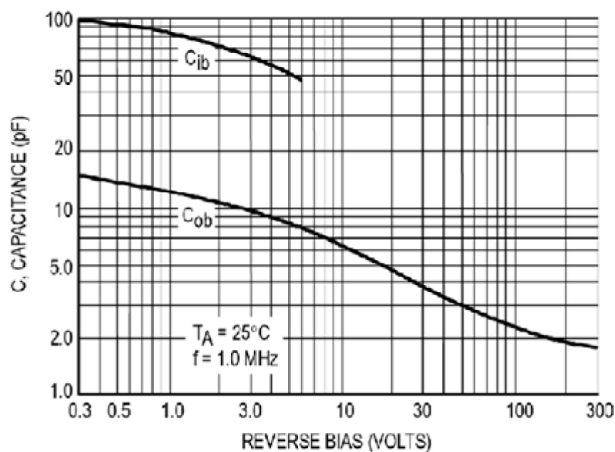
Collector Saturation Region



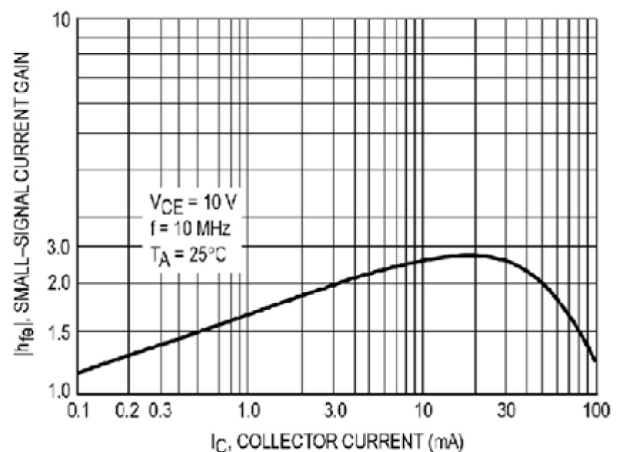
"On" Voltages



Active Region — Safe Operating Area



Capacitance



High Frequency Current Gain