

/ Descriptions

TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

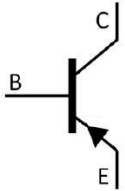
/ Features

High voltage. HF Product.

/ Applications

High voltage control circuit.

/ Equivalent Circuit



/ Pinning



PIN1 Collector PIN 2 Base PIN 3 Emitter

/ hFE Classifications & Marking

See Marking Instructions.

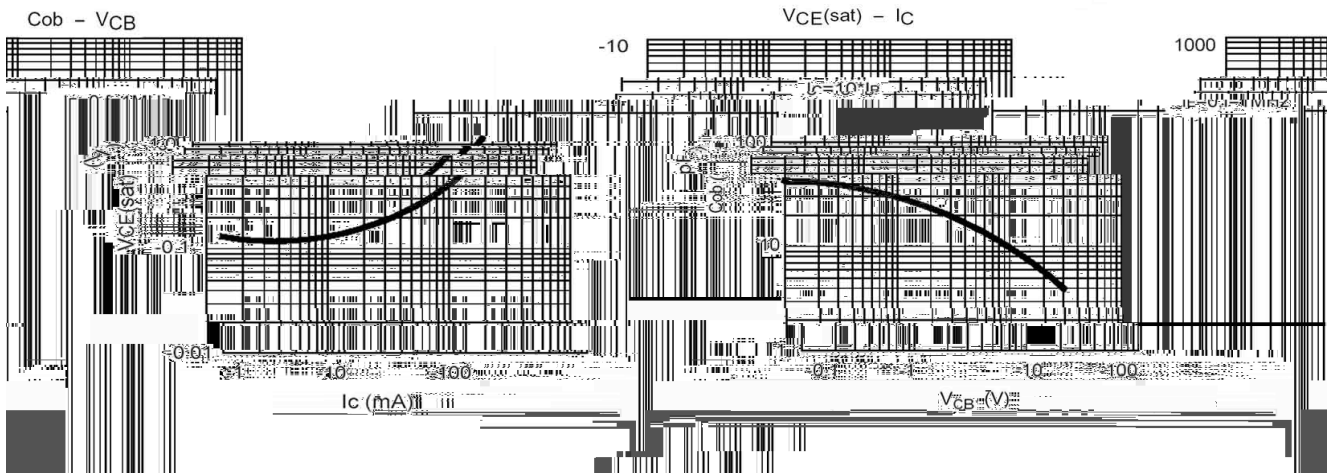
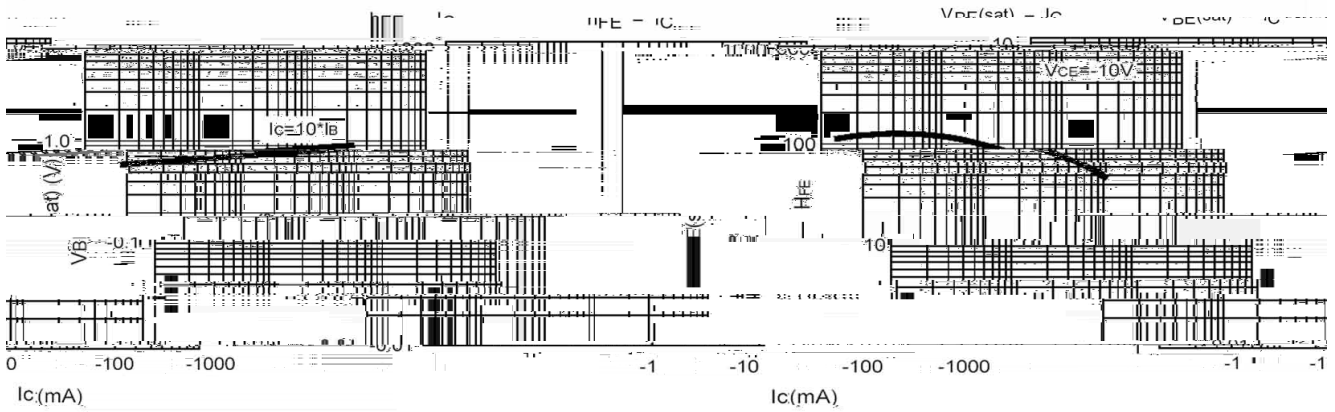
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-400	V
Collector to Emitter Voltage	V_{CEO}	-400	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-300	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-100\mu A$ $I_E=0$	-400			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0mA$ $I_B=0$	-400			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-100\mu A$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-300V$ $I_E=0$			-0.1	μA
Collector Cut-Off Current	I_{CES}	$V_{CE}=-400V$ $V_{BE}=0$			-1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-4.0V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-10V$ $I_C=-10mA$	80		300	
	$h_{FE(2)}$	$V_{CE}=-10V$ $I_C=-1.0mA$	70			
	$h_{FE(3)}$	$V_{CE}=-10V$ $I_C=-100mA$	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-10mA$ $I_B=-1.0mA$			-0.2	V
	$V_{CE(sat)(2)}$	$I_C=-50mA$ $I_B=-5.0mA$			-0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-10mA$ $I_B=-1.0mA$			-0.75	V
Transition Frequency	f_T	$V_{CE}=-5.0V$ $I_C=-10mA$ $f=30MHz$	50			MHz

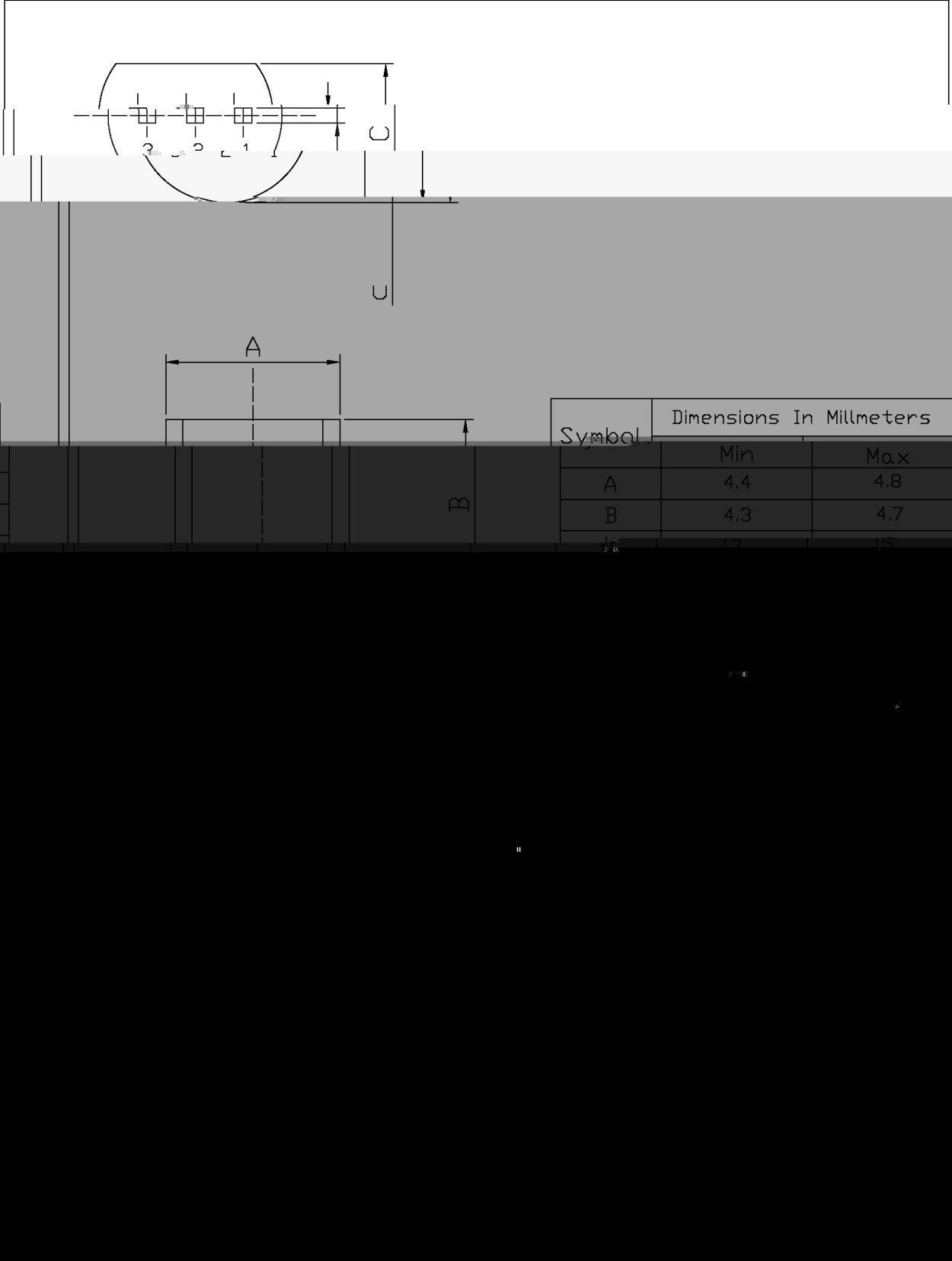
/ Electrical Characteristic Curve



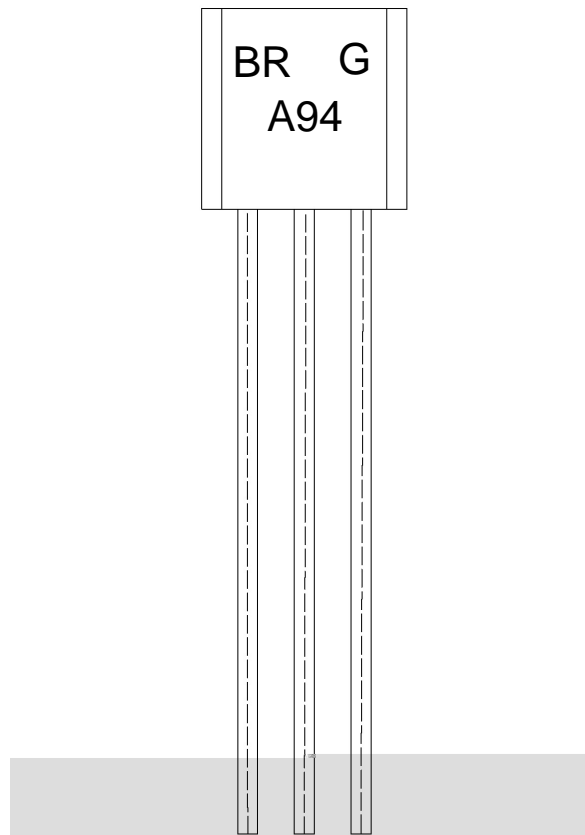
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

G:

A94

Note:

BR: Company Code.

G: Halogen Free Product

A94: Product Type.

****: Lot No. Code,code change with Lot No.

MPSA94G
Rev.F Apr.-2019