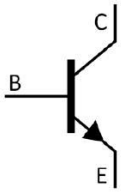
/ Descriptions

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

/ Features

High V_{CEO} , high $P_{C.}$

Medium power high voltage applications..





PIN1 Collector PIN 2 Base PIN 3 Emitter

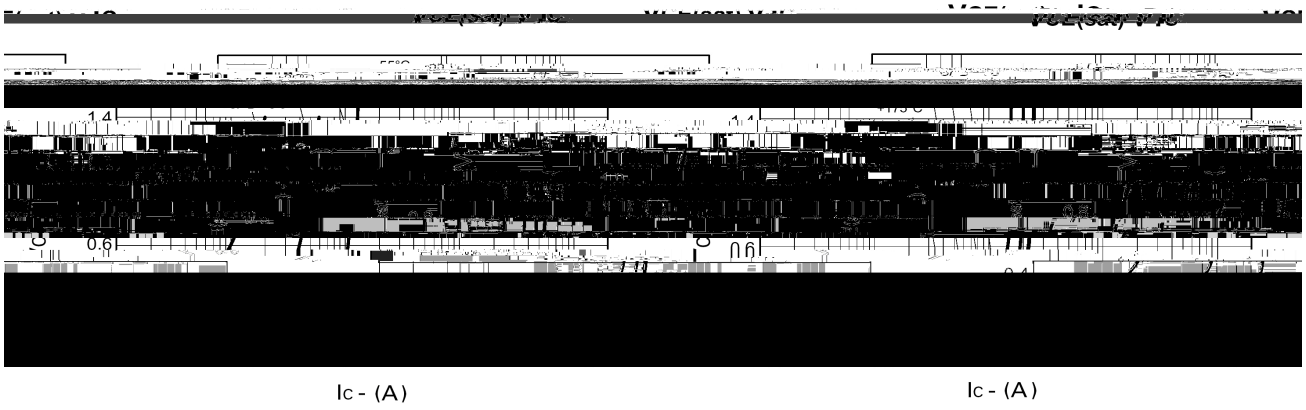
/ hFE Classifications & Marking

See Marking Instructions.

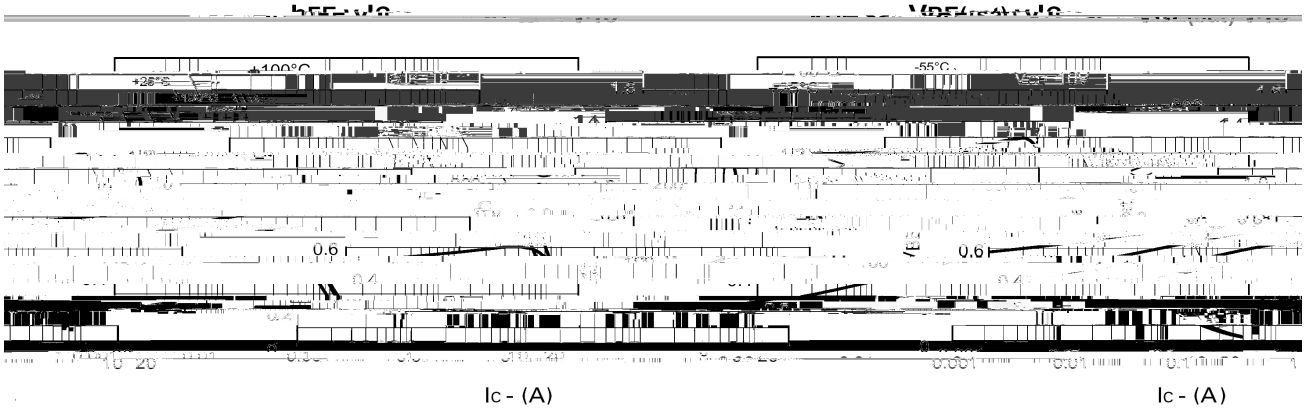
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	400	V
Collector to Emitter Voltage	V_{CEO}	400	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	300	mA
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=100 A I_E=0	400			V
Collector to Emitter Breakdown Voltage*	*V_{CEO}	I_C=10mA I_B=0	400			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=100 A I_C=0	5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=320V I_E=0			0.1	A
Collector Cut-Off Current	I_{CEO}	V_{CE}=320V I_B=0			0.1	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=4.0V I_C=0			0.1	A
DC Current Gain	$h_{FE(1)}$	V_{CE}=10V I_C=50mA	100		300	
	$h_{FE(2)}$	V_{CE}=10V I_C=1.0mA	100			
	*$h_{FE(3)}$	V_{CE}=10V I_C=100mA	15			
Collector-Emitter Saturation Voltage	$V_{CE(saa3.7.4851.4rT084\ 278.54\ 0.48008C\ Curroltage}$					

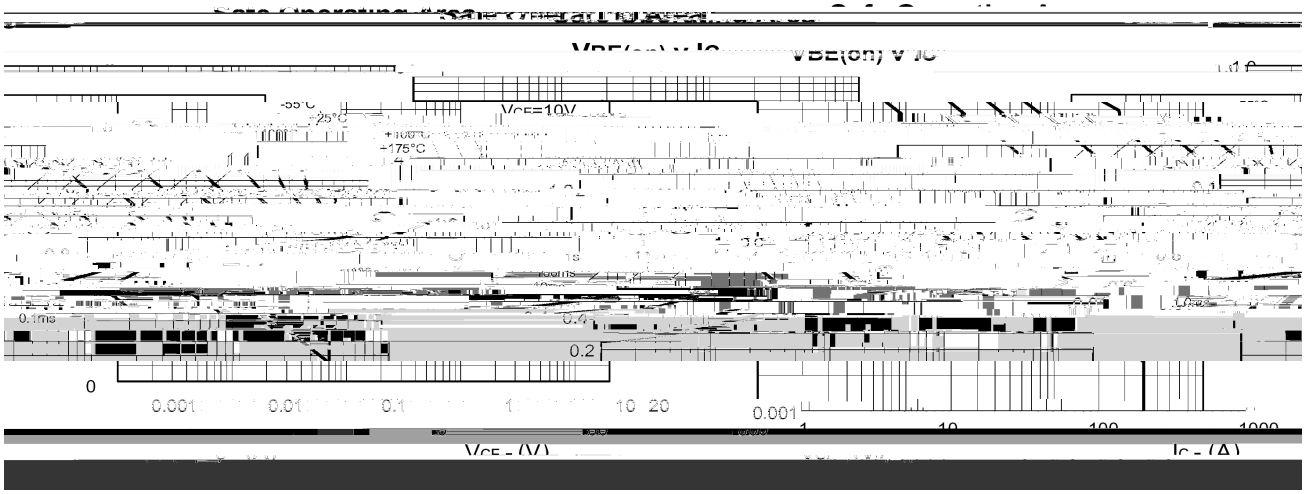
/ Electrical Characteristic Curve



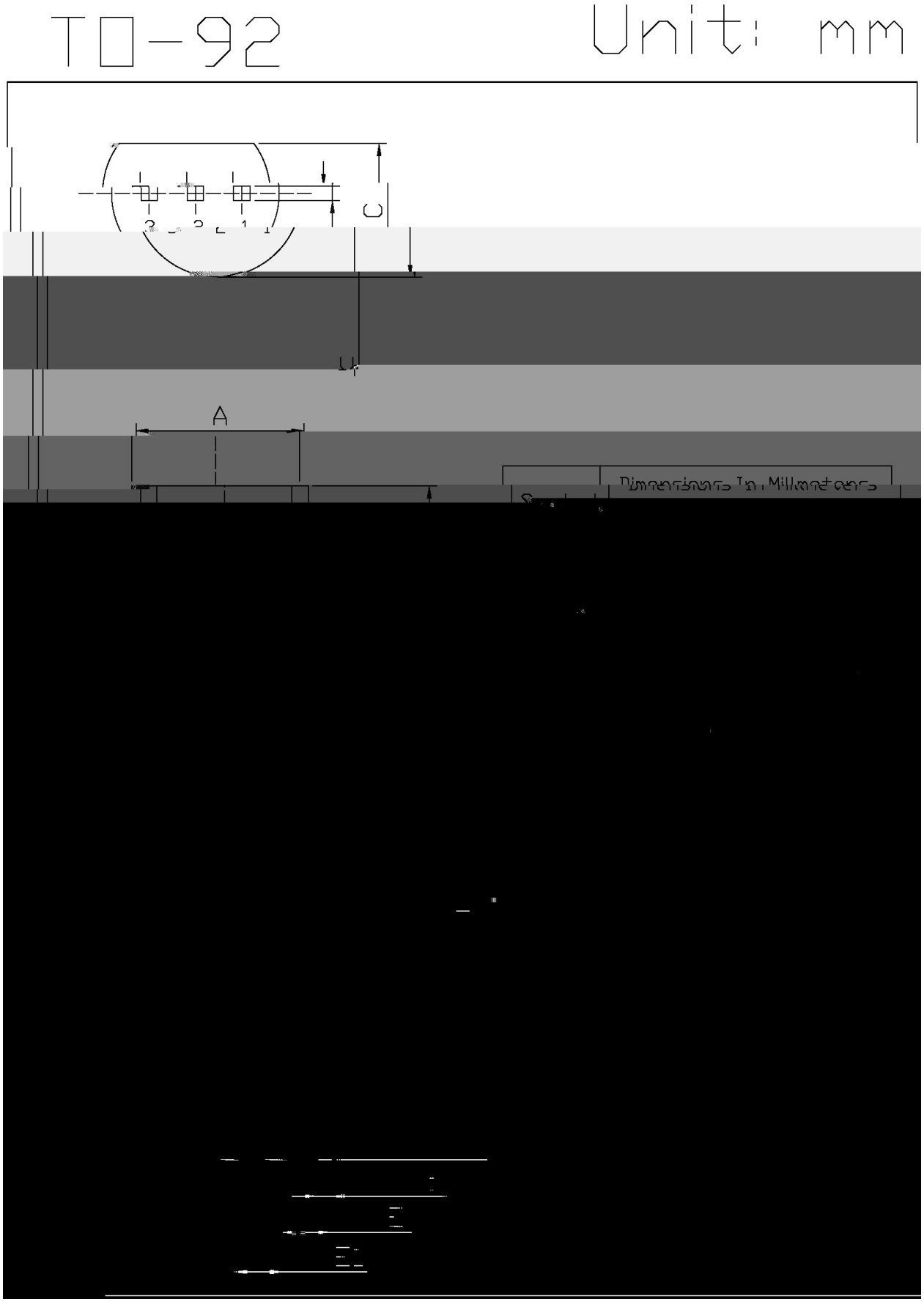
Ic - (A)　　Ic - (A)



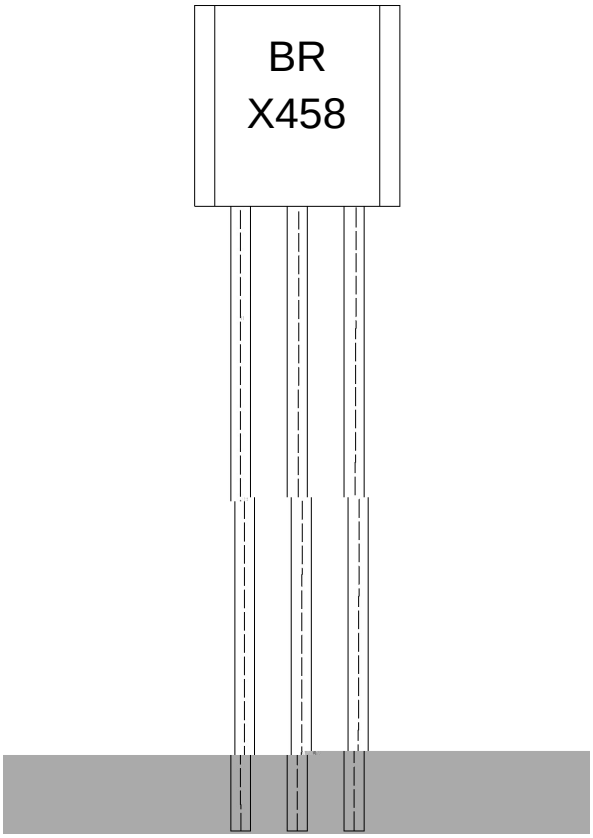
Ic - (A)　　Ic - (A)



/ Package Dimensions



/ Marking Instructions



BR:

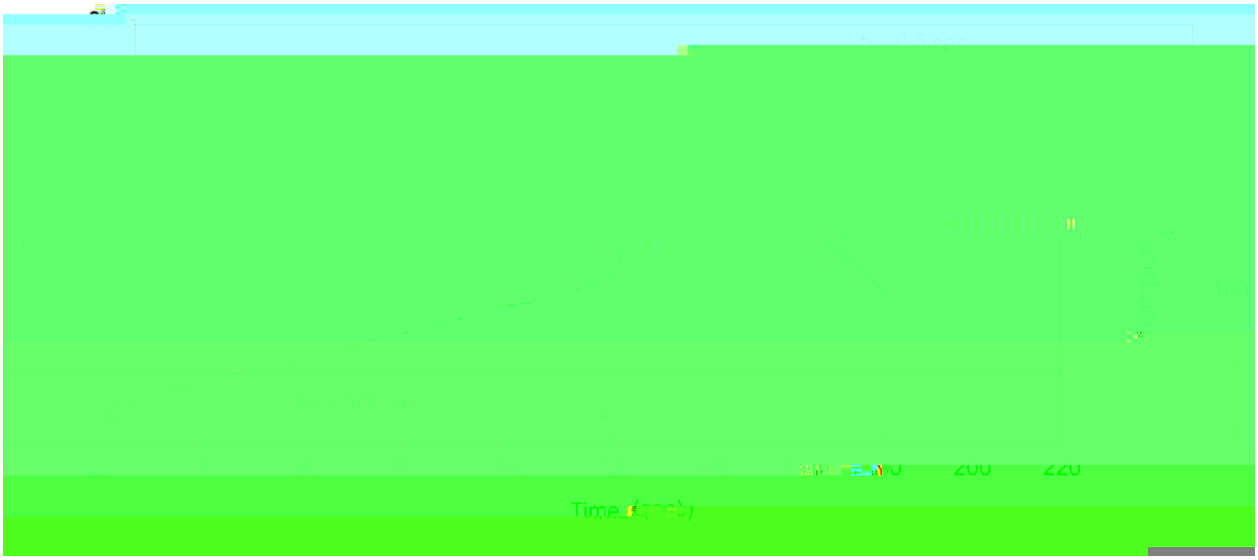
X458

****

Note:

BR:	Company Code.
X458:	Product Type.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



					Note:
1		25 150		60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2		255±5		5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3			2 10 /sec.		3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270±5	10±1 sec.	Temp:270±5	Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm3)

/ AMMO

Package Type	Units	Dimension	(unit mm3)

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