

# ZTX458

Rev.E Mar.-2016

## / Descriptions

TO-92

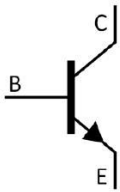
NPN

Silicon NPN transistor in a TO-92 Plastic Package.

## / Features □ / ircu145.25//Features □

High  $V_{CE0}$ , high  $P_C$ .

Medium power high voltage applications..



PIN1 Collector

PIN 2 Base

PIN 3 Emitter

## / hFE Classifications & Marking

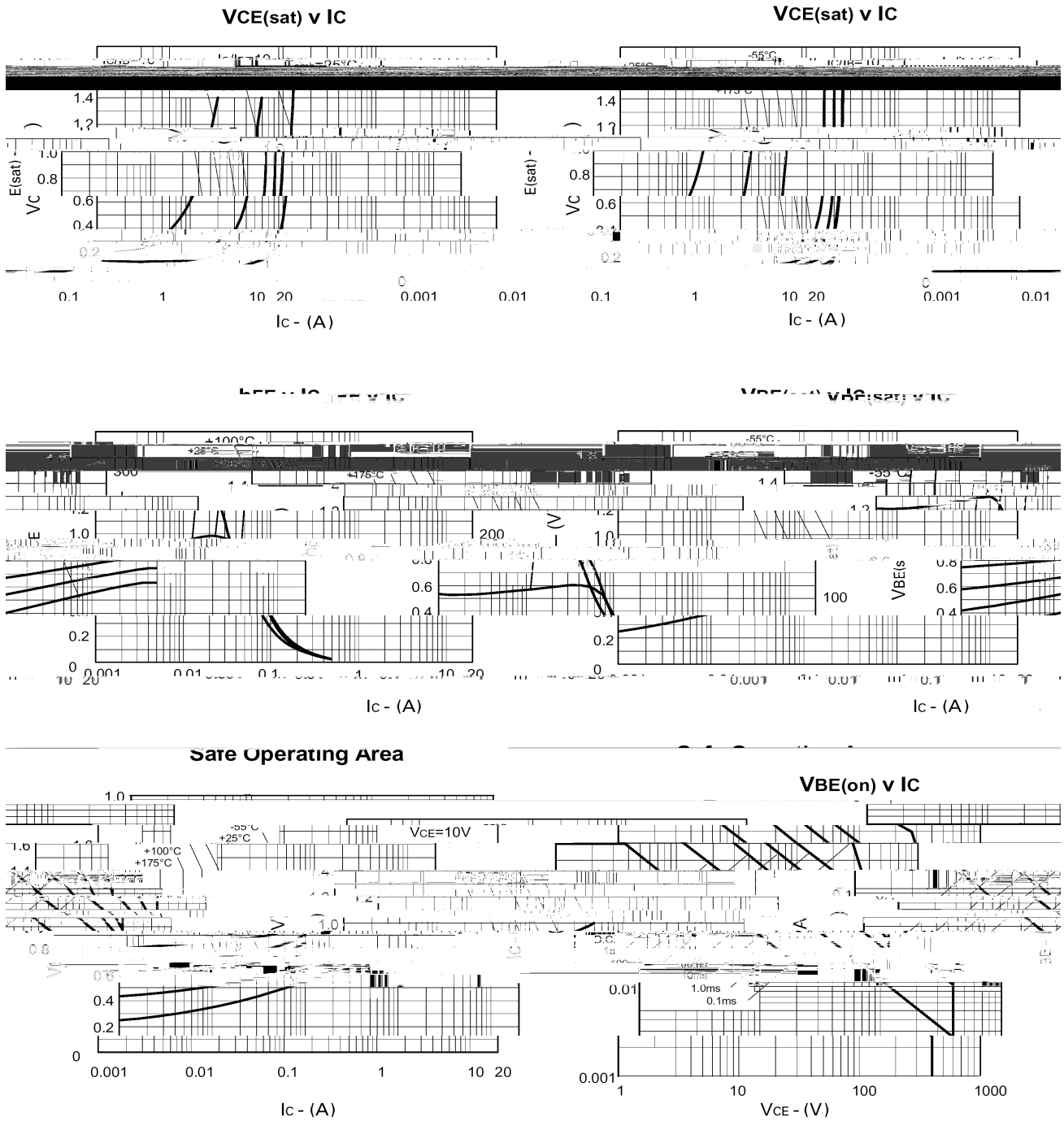
See Marking Instructions.

Symbol	Rating	Unit
$V_{CBO}$	400	V
$V_{CEO}$	400	V
$V_{EBO}$	5.0	V
$I_C$	300	mA
$P_C$	1.0	W
$T_j$	150	
$T_{stg}$	-55 150	

Test Conditions			Min	Typ	Max	Unit
$I_C$	100 A	$I_E=0$	400			V
$I_C$	10mA	$I_B=0$	400			V
$V_{CE}$	100 A	$I_C=0$	5.0			V
Off Current	$I_{CBO}$	$V_{CB}=320V$ $I_E=0$			0.1	A
Off Current	$I_{CEO}$	$V_{CE}=320V$ $I_B=0$			0.1	A
Off Current	$I_{EBO}$	$V_{EB}=4.0V$ $I_C=0$			0.1	A
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			

After Saturation  $V_{CE(sat)}$  ( ) [V].0200  $T_c(V)$   $T_j$  10251.4(15)-5.1( ) 480( )  $T_J$  352125Tm-0.007(ent Gain) 2  $T_J$  (0.0000  $T_c$  4.0000)

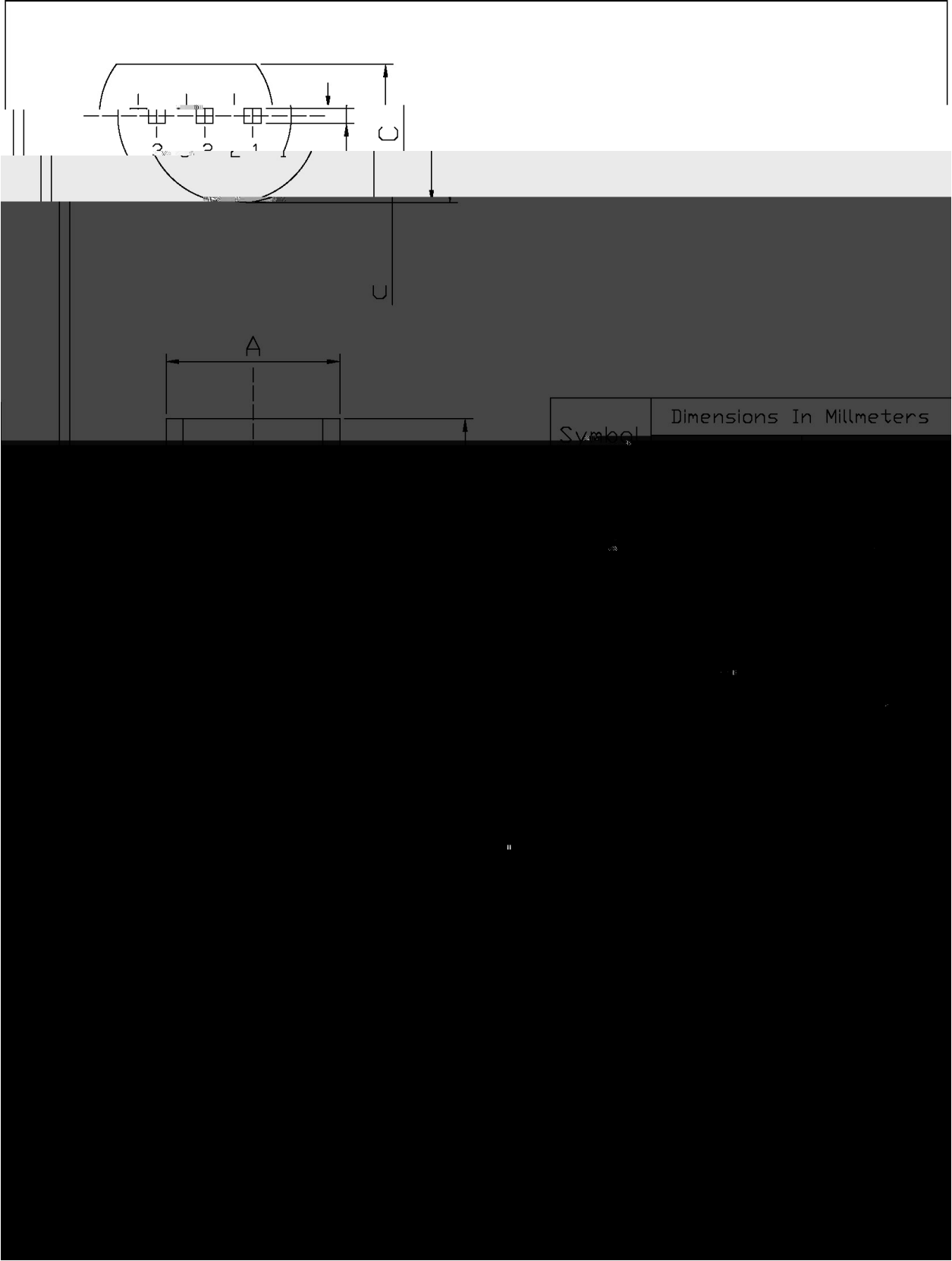
**/ Electrical Characteristic Curve**



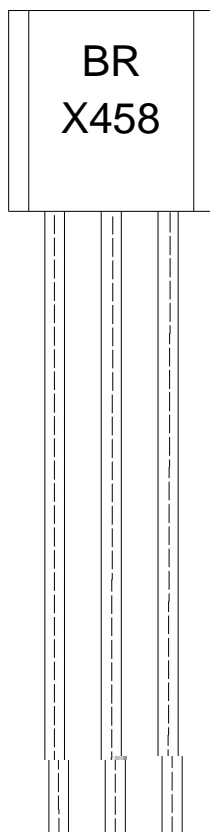
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



BR:

X458

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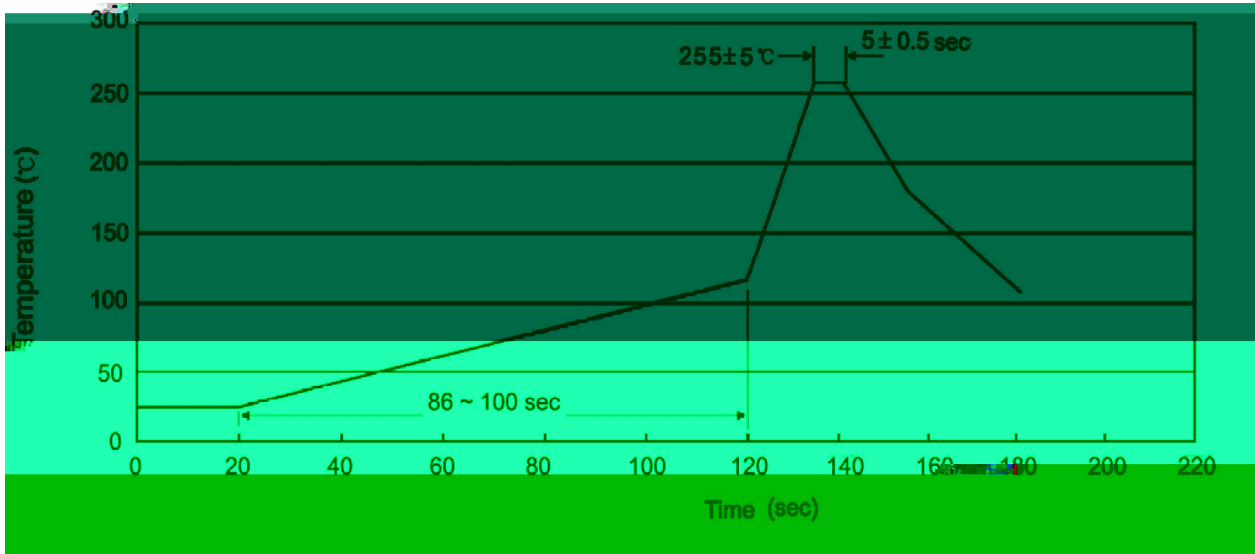
Note:

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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量			Dimension 包装尺寸 (unit: mm3)		
	只纸带	纸带盒	纸带			