

**/ Descriptions**

Silicon NPN transistor in a TO-92 Plastic Package.

**/ Features**

Large current capacity and wide ASO

**/ Applications**

Small signal general purpose amplifier applications.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

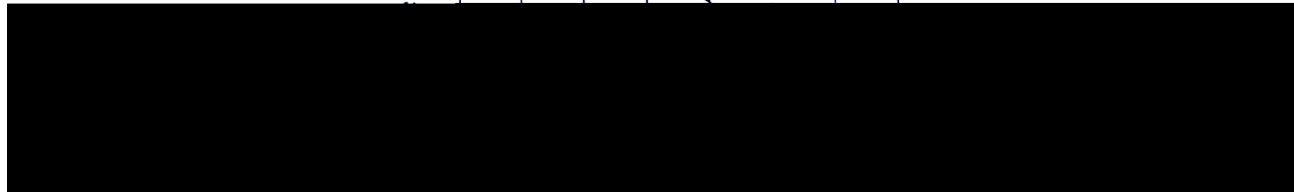
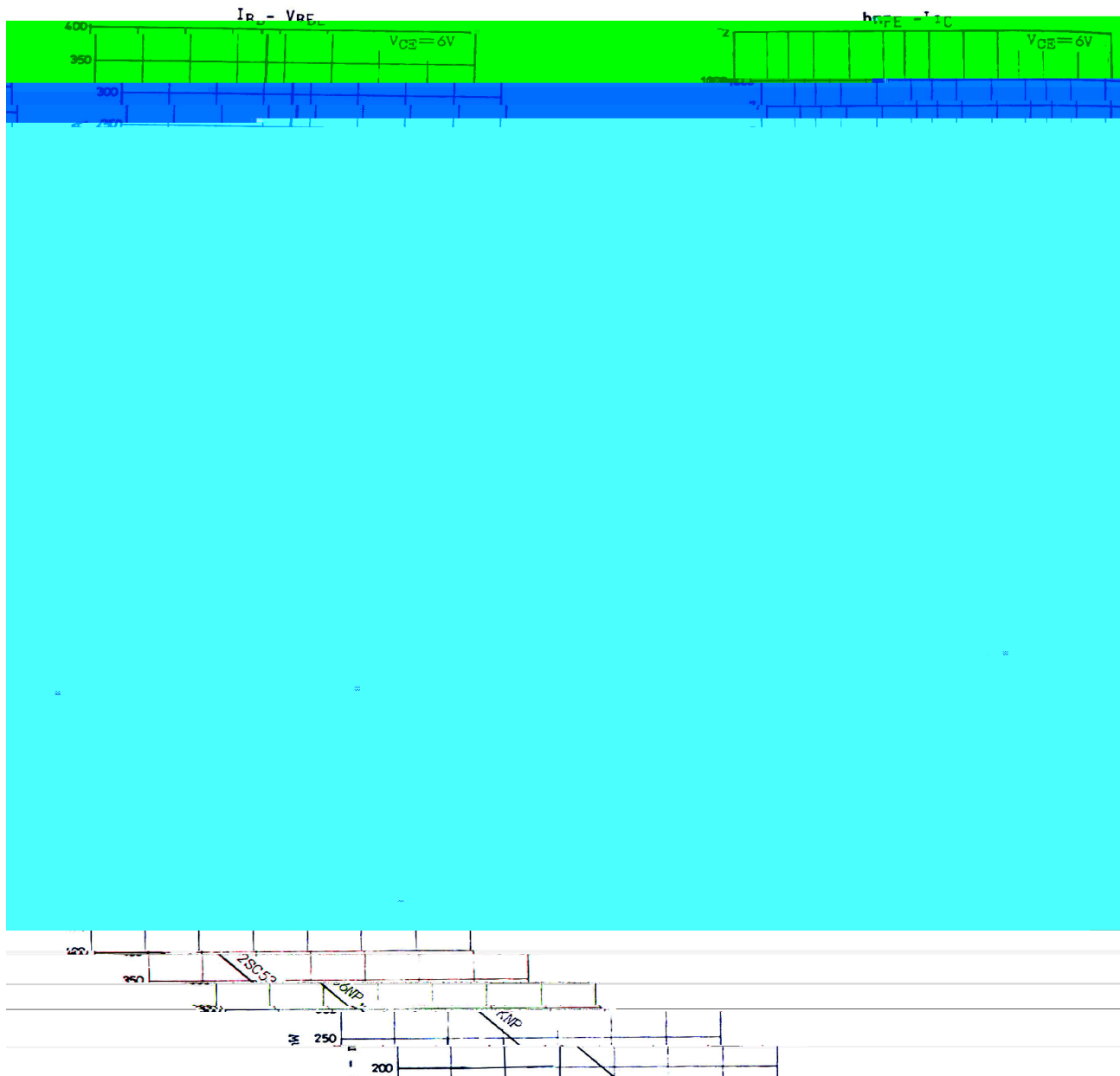
**/ hFE Classifications & Marking**

h <sub>FE</sub> Classifications Symbol	D	E	F	G	H
h <sub>FE</sub> Range	60~120	100~200	160~320	280~560	480~960

Parameter	Symbol		Rating	Unit
Collector to Base Voltage	$V_{CBO}$	2SC536	40	V
		2SC536K	55	
Collector to Emitter Voltage	$V_{CEO}$	2SC536	30	V
		2SC536K	50	
Emitter to Base Voltage	$V_{EBO}$		5.0	V
Collector Current - Continuous	$I_C$		100	mA
Collector Current	$I_{CP}$		300	mA
Collector Power Dissipation	$P_C$		400	mW
Junction Temperature	$T_j$		150	
Storage Temperature Range	$T_{stg}$		-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=35V$ $I_E=0$			1.0	$\mu A$
Collector Cut-Off Current	$I_{EBO}$	$V_{EB}=4.0V$ $I_C=0$			1.0	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=6.0V$ $I_C=1.0mA$	60		960	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50mA$ $I_f$ 232.38 356.3603 Tm-3				

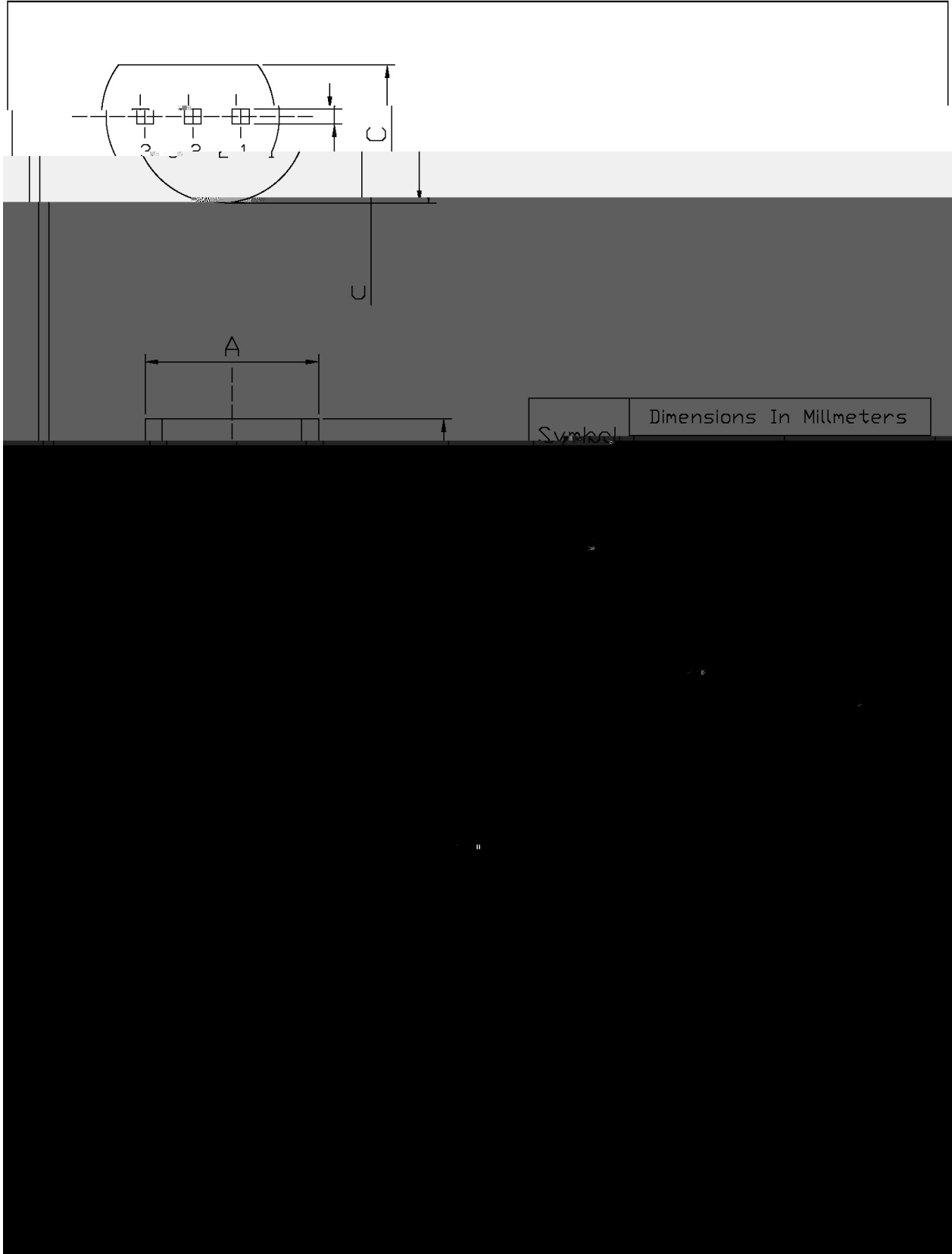
/ Electrical Characteristic Curve



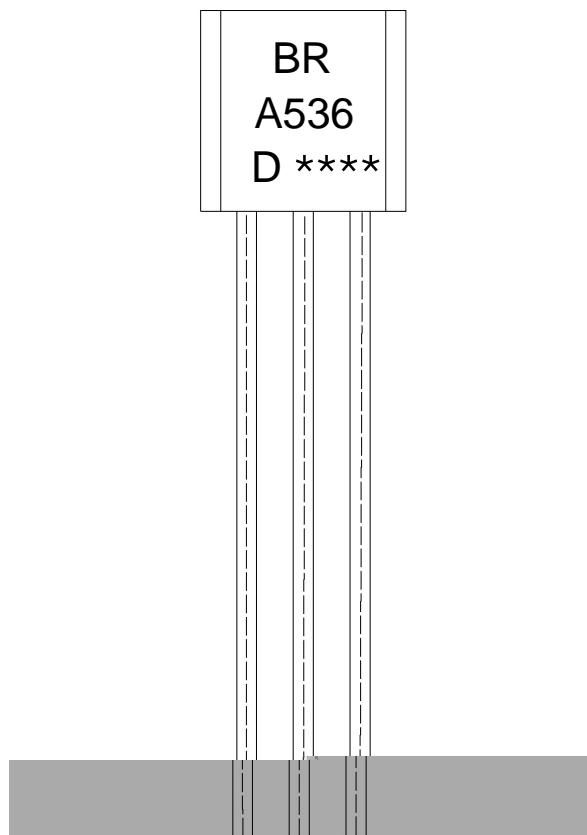
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



Note:

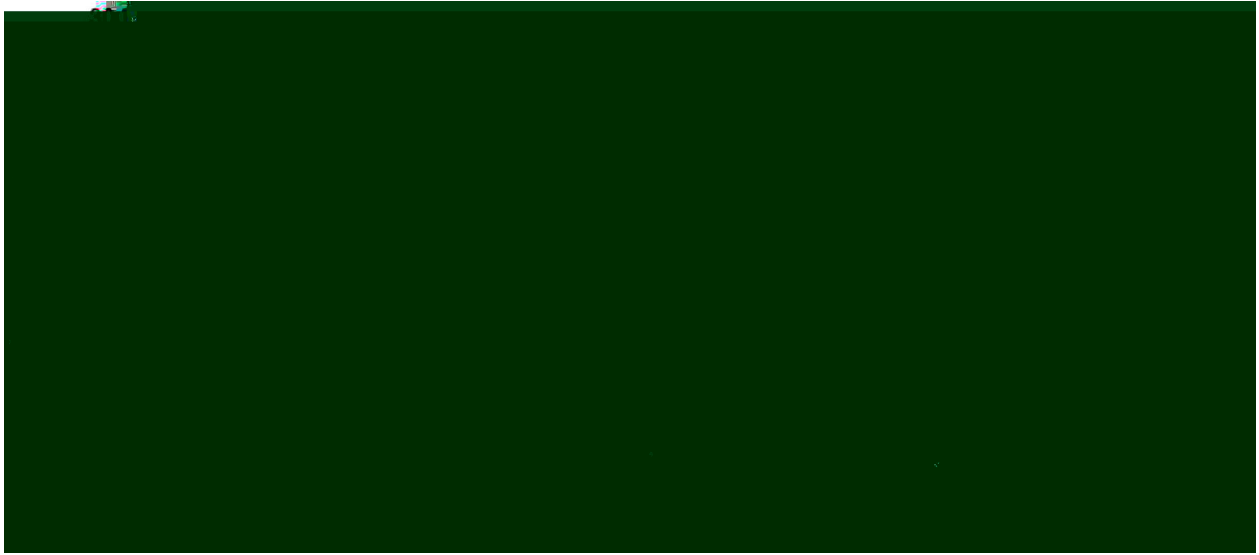
BR: Company Code.

A536: Product Type.

D:  $h_{FE}$  Classifications Symbol

\*\*\*\*: 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)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type	Units					Dimension (unit mm3)	
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
TO-92	3,000	1	120	10	30,000	328×230×42	480×346×235 547×407×268

/ Notices