

### / Descriptions

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

### / Features

$P_C, I_C$  , 8550

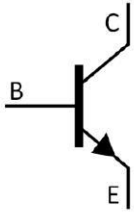
High  $P_C$  and  $I_C$ , complementary pair with 8550.

### / Applications

2W

2W output amplifier of portable radios in class B push-pull operation.

### / Equivalent Circuit



### / Pinning



PIN1 Collector          PIN 2 Base          PIN 3 Emitter

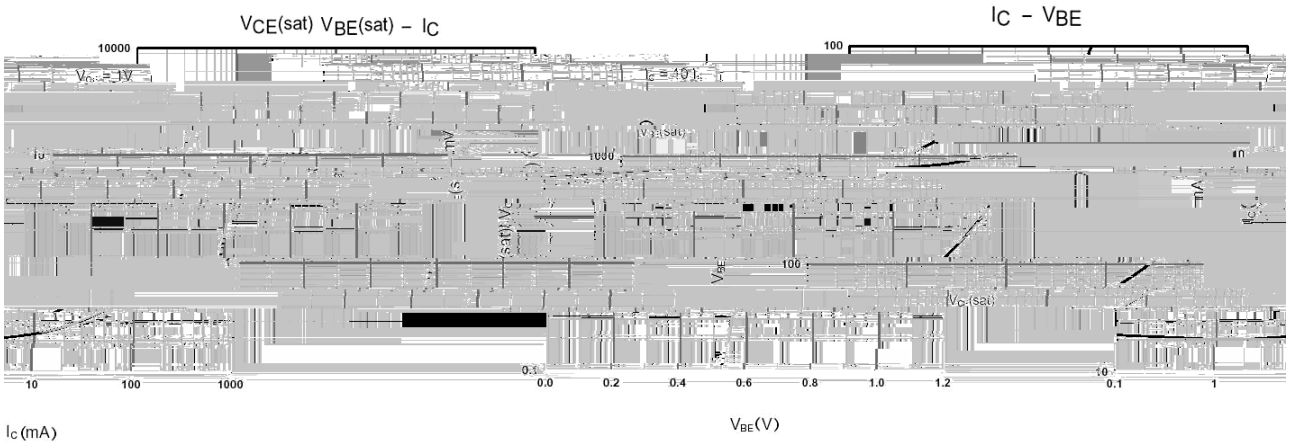
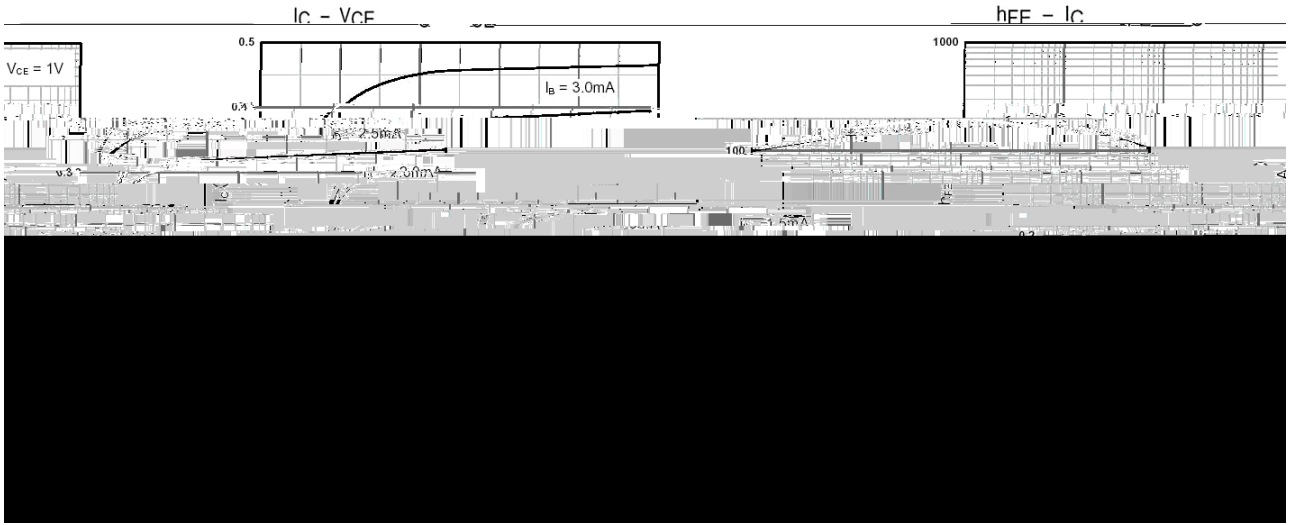
### / $h_{FE}$ Classifications & Marking

$h_{FE}$ Classifications Symbol	B	C	D
$h_{FE}$ Range	85~160	120~200	160~300

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	40	V
Collector to Emitter Voltage	$V_{CEO}$	25	V
Emitter to Base Voltage	$V_{EBO}$	6	V
Collector Current - Continuous	$I_C$	1.5	A
Base Current	$I_B$	0.5	A
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	$V_{CBO}$	$I_C=0.1mA$ $I_E=0$	40			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=2.0mA$ $I_B=0$	25			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=0.1mA$ $I_C=0$			CEO	

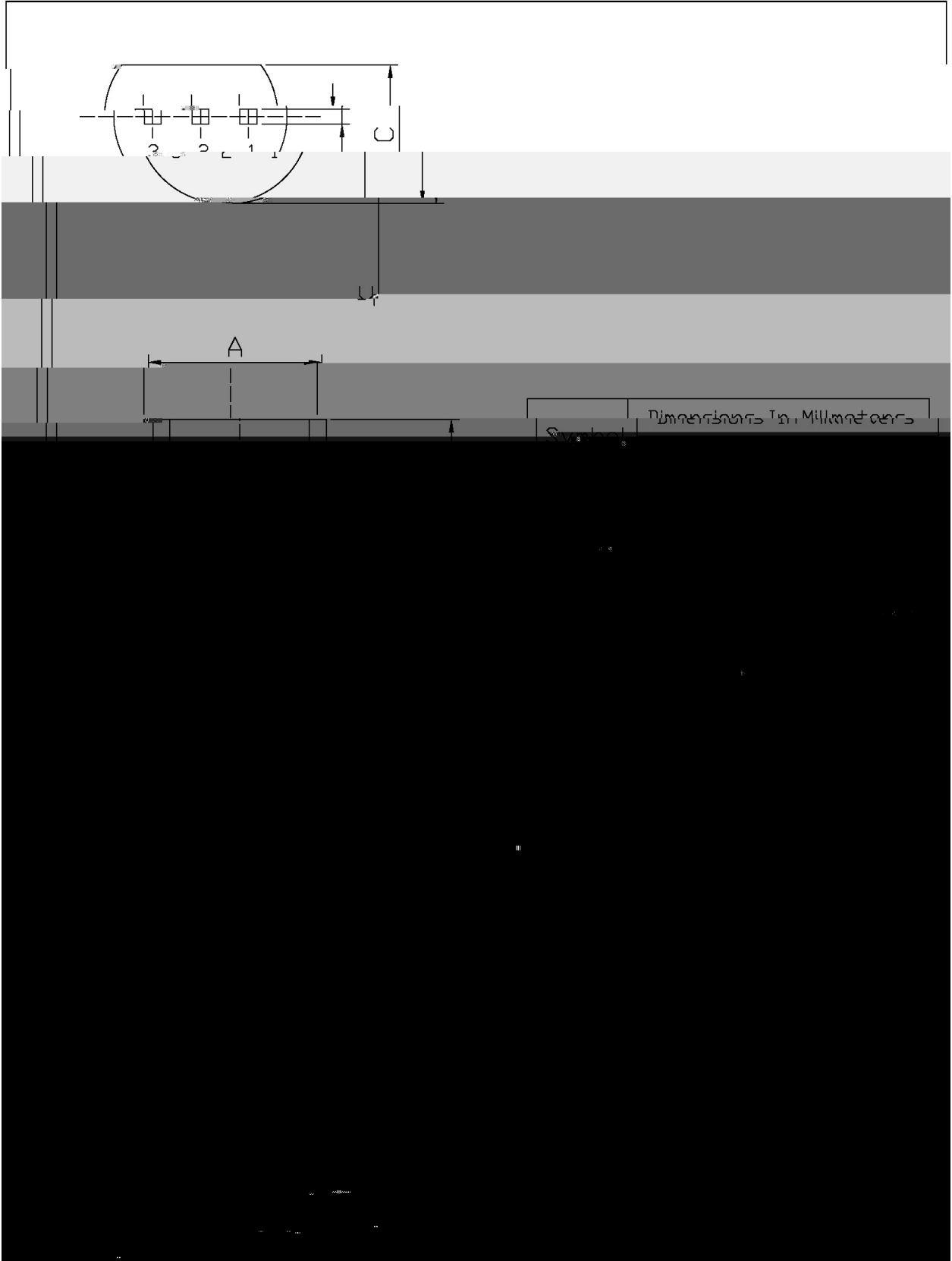
/ Electrical Characteristic Curve



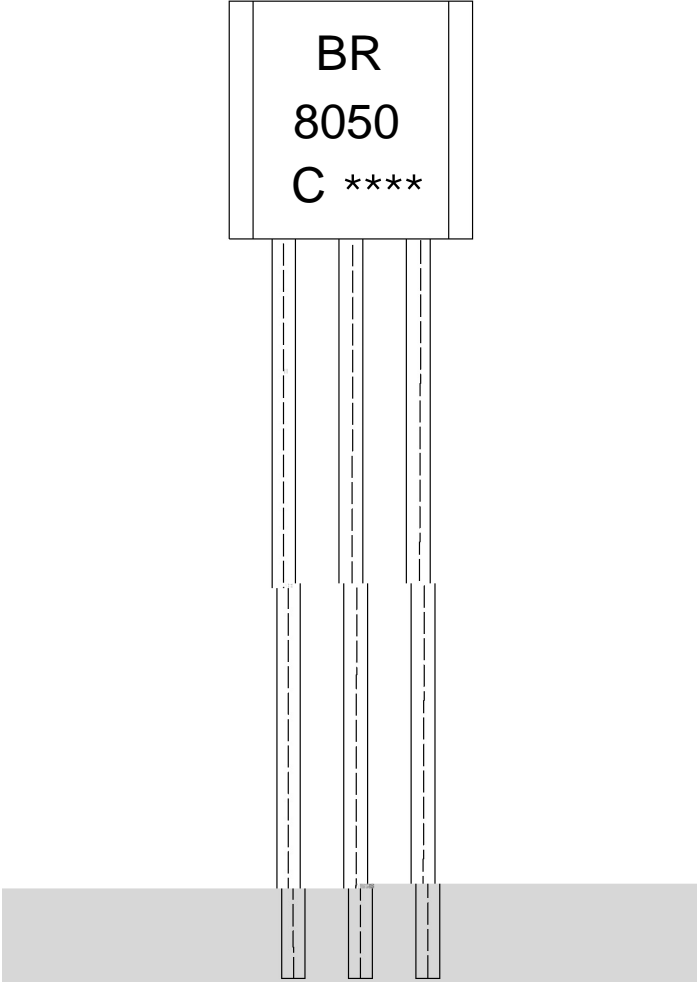
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR

8050

C:  $h_{FE}$

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Note:

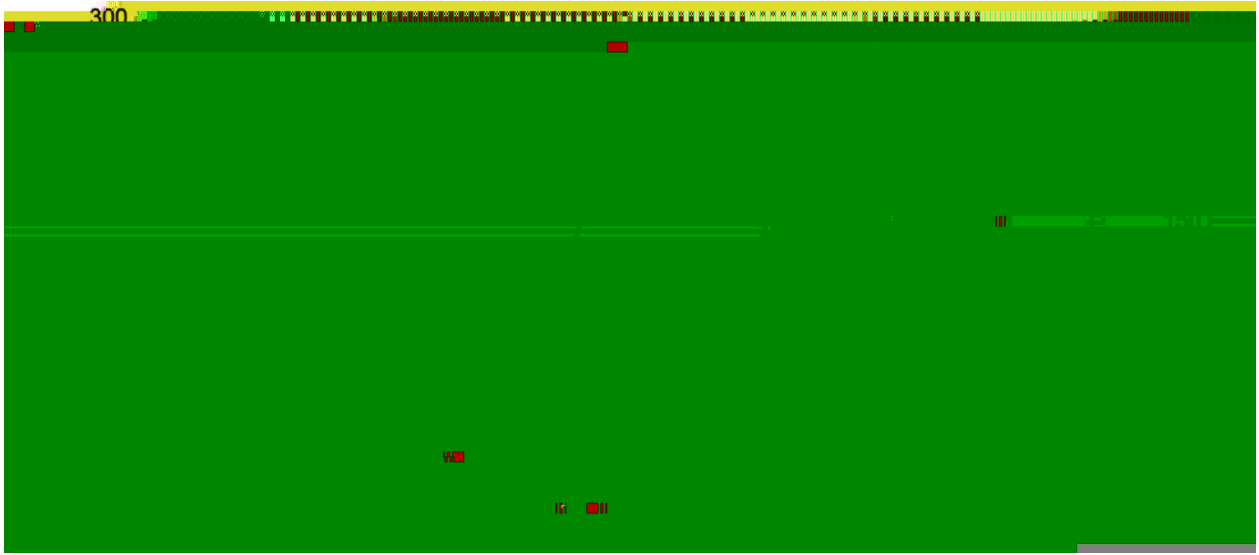
BR: Company Code.

8050: Product Type.

C:  $h_{FE}$  Classifications Symbol.

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

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 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
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/ Packaging SPEC.

/ BULK

Package Type(K)22319.18 r2310.nA3 te514 -12.331 TD0 Tc0 TwEdf>75416d0ef90cb4fJ/TT4 1 Tf400056 0 TD( )Tj14:27T7 .e5110 TD0.0075 TcUJni(t