

**/ Descriptions**

Silicon NPN transistor in a TO-252 Plastic Package.

**/ Features**

Low  $V_{CE(sat)}$ , complementary to KTA1040D.

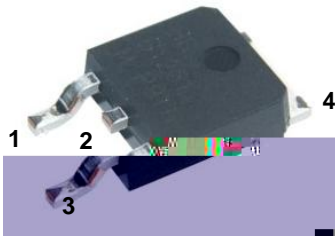
**/ Applications**

General purpose amplifier for surface mount applications.

**/ Equivalent Circuit**



**/ Pinning**



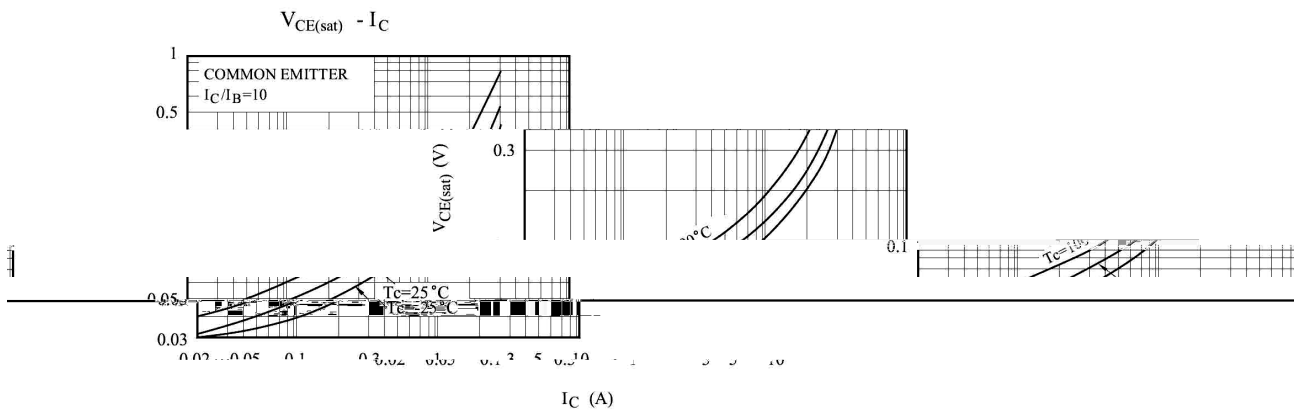
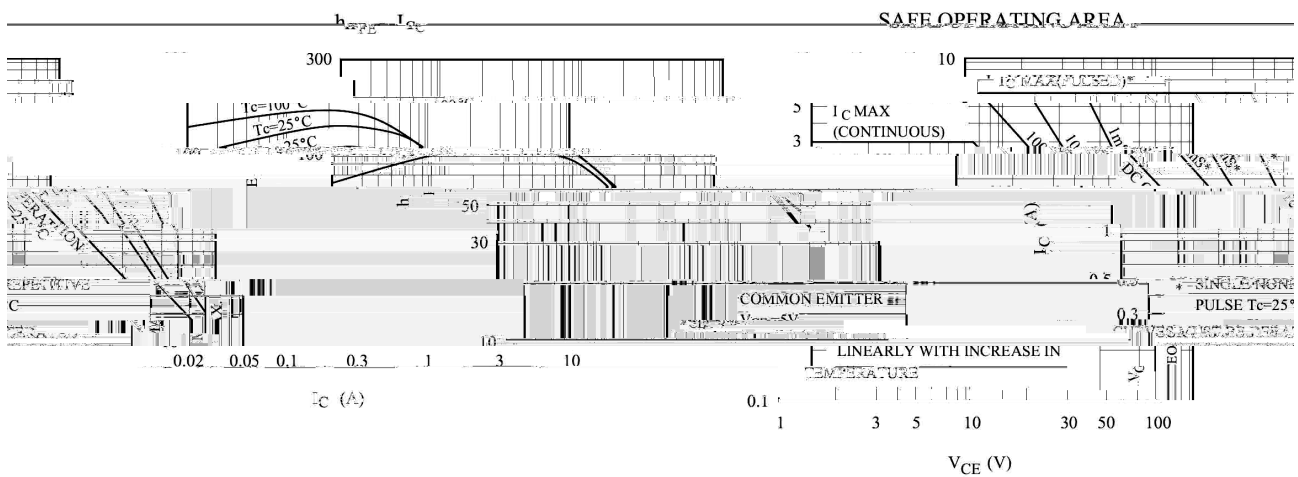
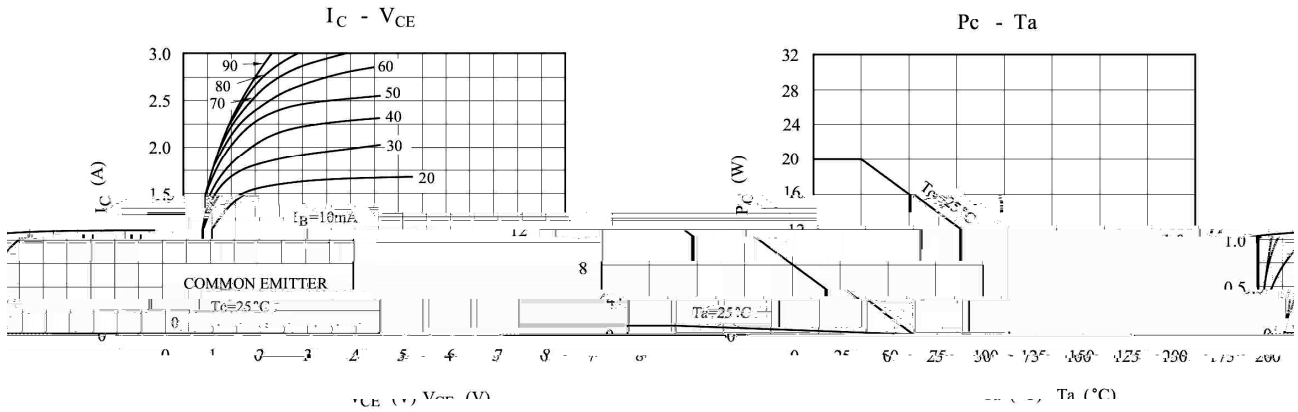
PIN1 Base      PIN 2,4 Collector      PIN 3 Emitter

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

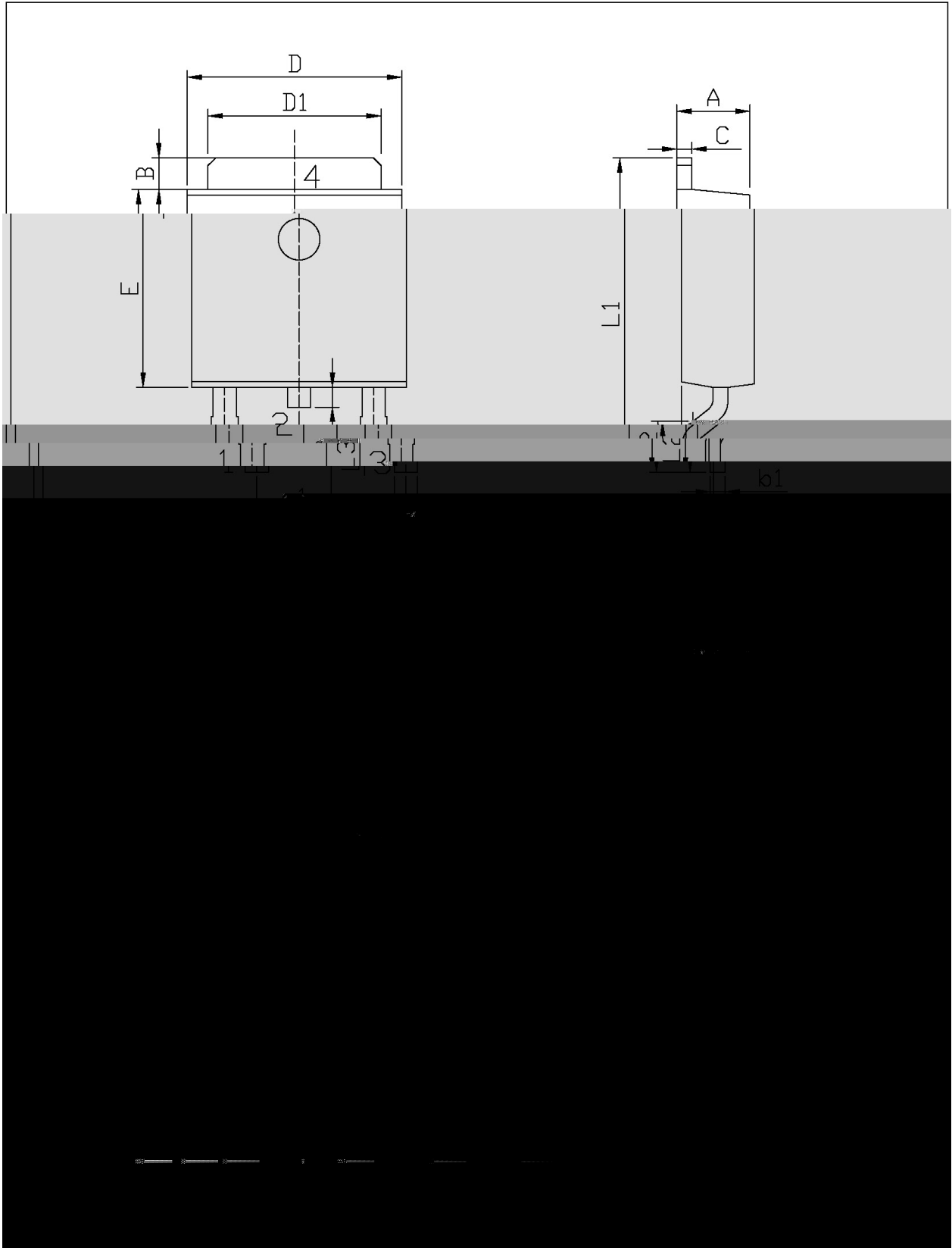
$h_{FE}$ Classifications Symbol	Y	GR
$h_{FE}$ Range	100 200	150 300



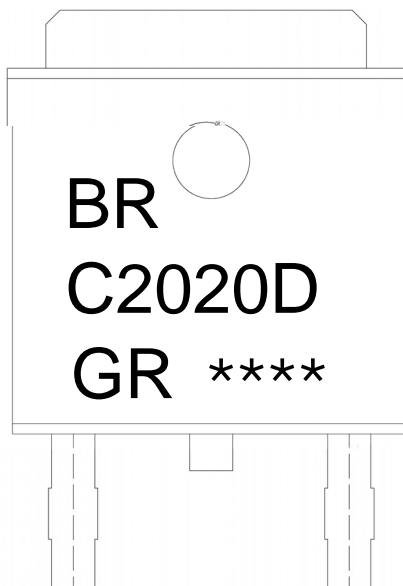
**/ Electrical Characteristic Curve**



/ Package Dimensions



/ Marking Instructions



BR

GR  $h_{FE}$

Note:

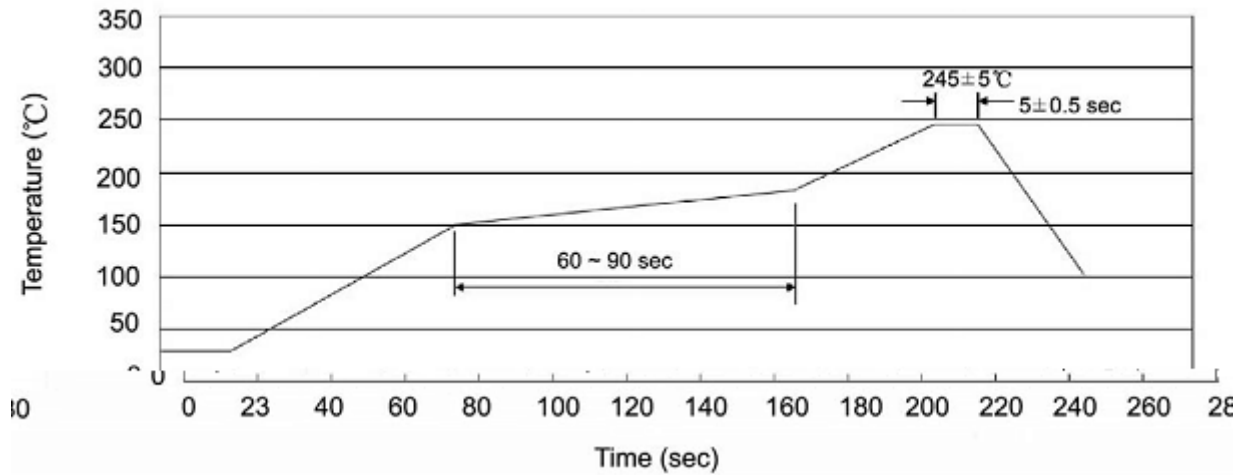
BR: Company Code

C2020D: Product Type.

GR:  $h_{FE}$  Classifications Symbol

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

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1            25   150                    60   90sec;                    1.Preheating:25~150 , Time:60~90sec.
- 2            245   5                                    5   0.5sec;                    2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3                                    2   10 /sec.                    3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5                                    10 1 sec.                                    Temp.:260±5                                    Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

/ Notices