

/ Revised record

版本	修订日期	有修订的页码	修订涉及的内容	拟制	审核
A	2022.01.11	ALL	参照 MCC-2SD1815 规格书做本厂规格书	庞隆基	陈逸晞
B	2022-1-25	2	I_{CBO} 、 I_{EBO} 由 10 μ A 改为 1 μ A	黄超	庞隆基

2SD1815
Rev.B Jan.-2022

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current - Continuous	I_C	3	A
Collector Current – Continuous(Pulse)	I_{CP}	6	



/ Electrical Characteristic Curve

Fig. 1 - Static Characteristics

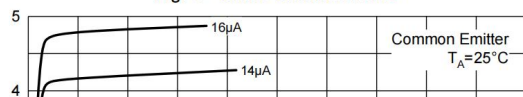


Fig. 2 - DC Current Gain Characteristics



Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

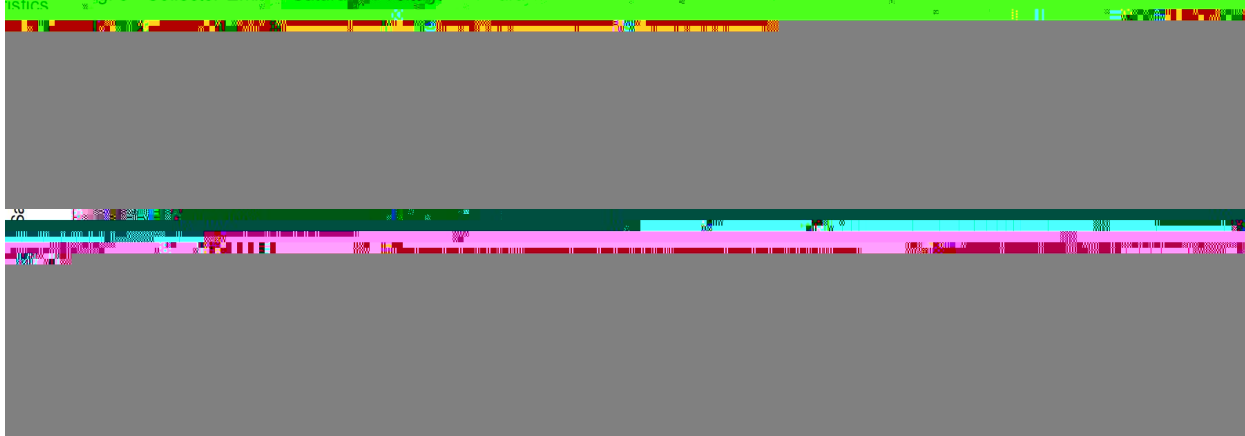


Fig. 5 - Base-Emitter Voltage Characteristics

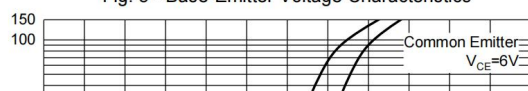
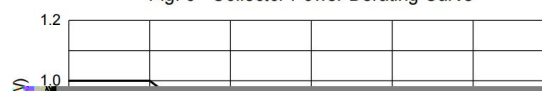
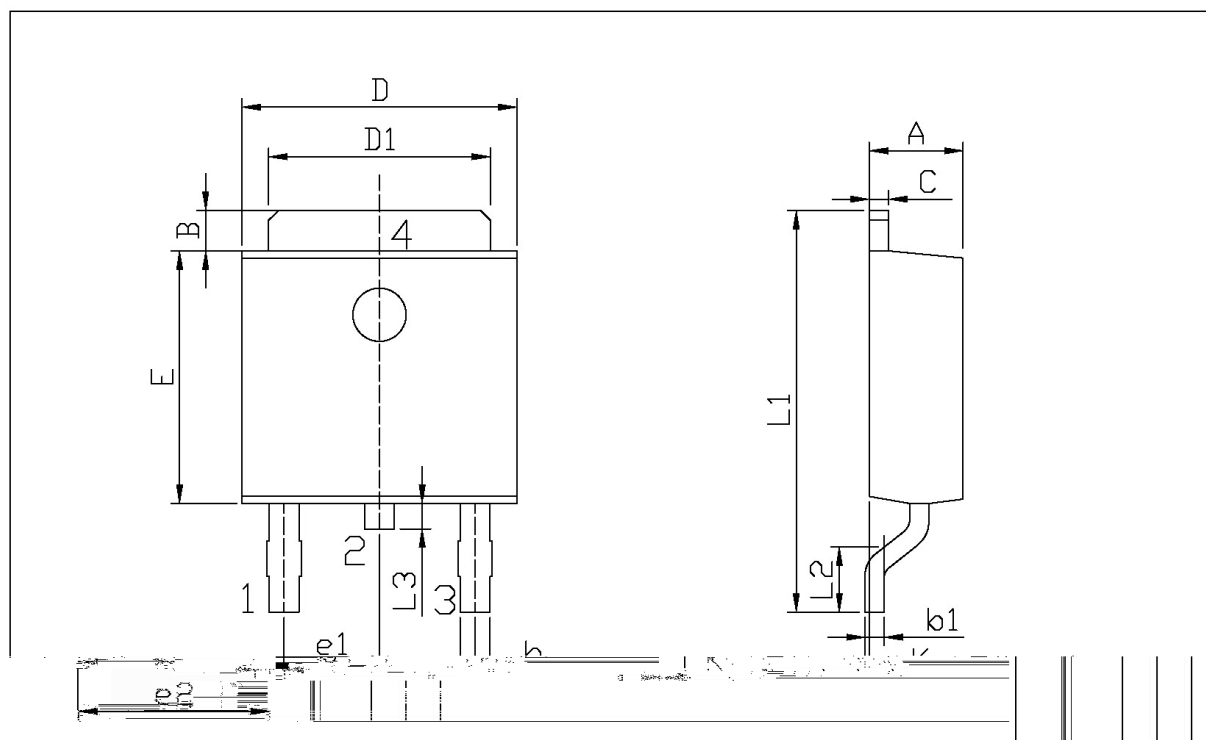


Fig. 6 - Collector Power Derating Curve



/ Package Dimensions

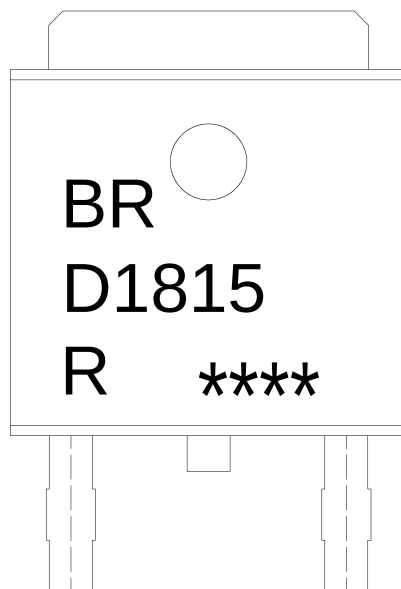


单位: mm

Dimensions		Symbol		Dimensions		Symbol	
Min	Max			Min	Max		
6.25		A	2.20	2.40	E	8.95	
2.34		B	0.95	2.25	e1	2.24	
4.73		b	0.50	0.90	e2	4.43	
9.95		b1	0.45	0.55	L1	9.45	
0.75		C	0.45	0.55	L2	1.25	
D	6.45	6.75	L3	0.60	0.90		
D1	5.10	5.50	K	0.00	0.10		

TO-252

/ Marking Instructions



说明：

BR： 为公司代码

D1815： 为型号代码

R： 为 h_{FE} 分档代码

****： 为生产批号代码，随生产批号变化

Note:

BR: Company Code

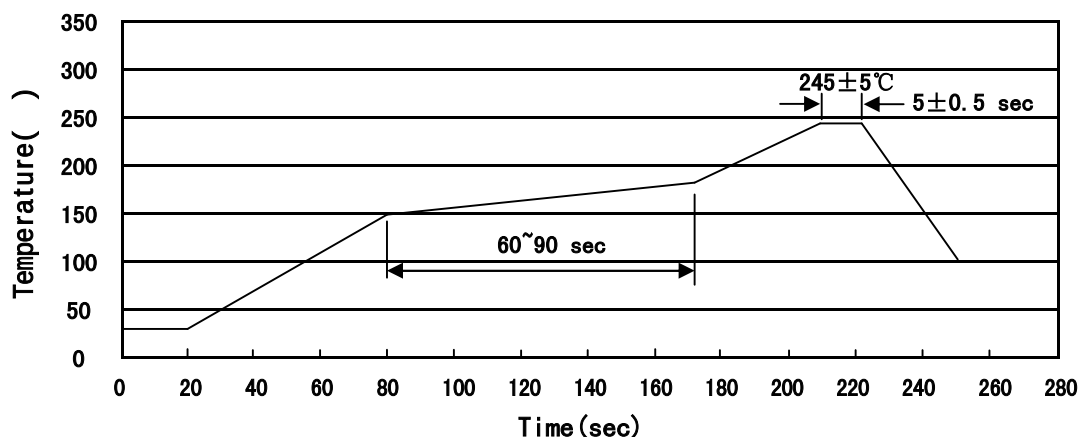
D1815: Product Type.

R: h_{FE} Classifications Symbol

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



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



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|--|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | | 2 | 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C 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 ³)		
	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	6	30,000	13" ×16	360×360×50	380×335×366

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	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