



修订记录 / Revised record

D	2015-12				
E	2020-7-30	1	'		
A	2022-2-11				

# BRMJE172D

Rev.A Feb.-2022



DATA SHEET

TO-252

PNP

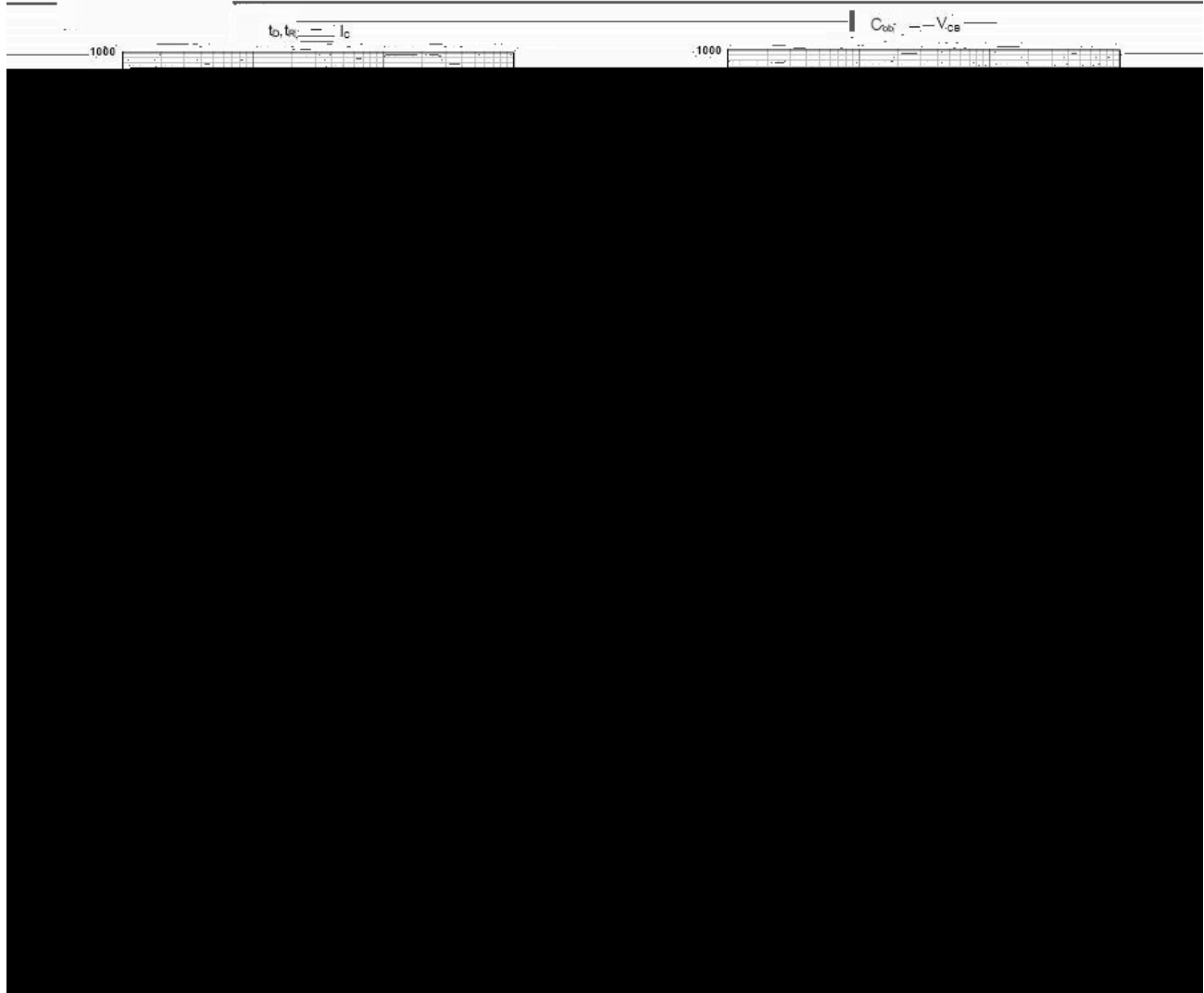
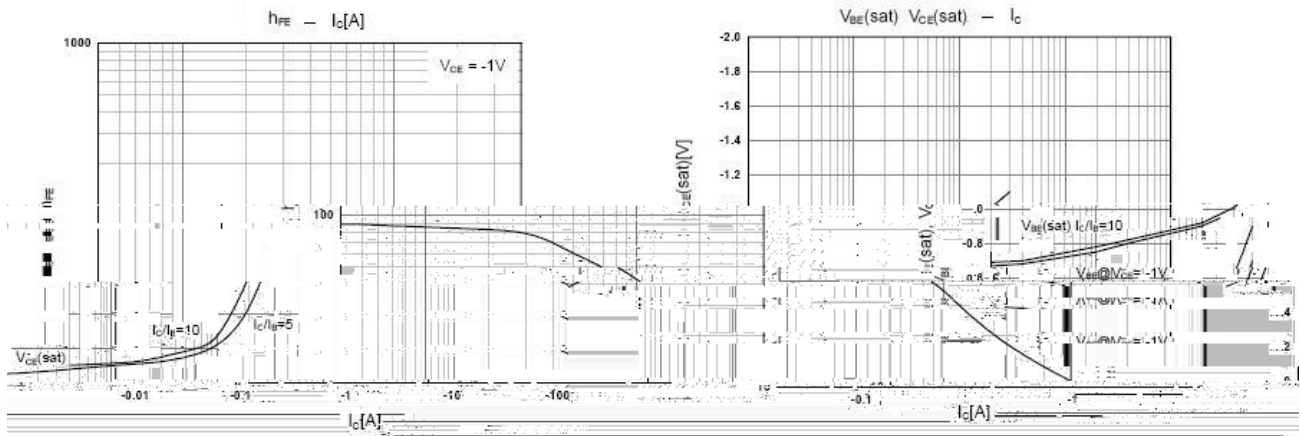
**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-100	V
Collector to Emitter Voltage	$V_{CEO}$	-80	V
Emitter to Base Voltage	$V_{EBO}$	-7.0	V
Collector Current - Continuous	$I_C$	-3.0	A
Collector Current - Continuous	$I_{CP}$	-6.0	A
Base Current - Continuous	$I_B$	-1.0	A
Collector Power Dissipation	$P_C$	1.5	W
Collector Power Dissipation	$P_C(T_c=25^\circ\text{C})$	12.5	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

**电性能参数 / Electrical Characteristics(Ta=25°C)**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10\text{mA}$ $I_B=0$	-80			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-100\text{V}$ $I_E=0$			-0.1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-7.0\text{V}$ $I_C=0$			-0.1	$\mu\text{A}$
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0\text{V}$ $I_C=-100\text{mA}$	50		300	
	$h_{FE(2)}$	$V_{CE}=-1.0\text{V}$ $I_C=-500\text{mA}$	30			
	$h_{FE(3)}$	$V_{CE}=-1.0\text{V}$ $I_C=-1.5\text{A}$	12			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-500\text{mA}$ $I_B=-50\text{mA}$			-0.3	V
	$V_{CE(sat)(2)}$	$I_C=-1.5\text{A}$ $I_B=-150\text{mA}$			-0.9	V
	$V_{CE(sat)(3)}$	$I_C=-3.0\text{A}$ $I_B=-600\text{mA}$			-1.7	V
Base to Emitter Saturation Voltage	$V_{BE(sat)(1)}$	$I_C=-1.5\text{A}$ $I_B=-150\text{mA}$			-1.5	V
	$V_{BE(sat)(2)}$	$I_C=-3.0\text{A}$ $I_B=-600\text{mA}$			-2.0	V
Base to Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=-1.0\text{V}$ $I_C=-500\text{mA}$			-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-10\text{V}$ $I_C=-100\text{mA}$	50			MHz
Reverse Transfer Capacitance	$C_{ob}$	$V_{CB}=-10\text{V}$ $f=0.1\text{MHz}$			50	pF

**电参数曲线图 / Electrical Characteristic Curve**





**印章说明 / Marking Instructions**



BR

MJE172

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Note:

BR: Company Code

MJE172: Product Type

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

**波峰焊温度曲线图(无铅) / Temperature Profile for Dip 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.            |

**耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions**

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

**包装规格 / 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	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 <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

**使用说明 / Notices**