

/ Descriptions

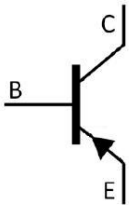
TO-126

PNP

Silicon PNP transistor in a TO-126 Plastic Package.

/ Features V_{CEO} High V_{CEO} Large DC current, high f_T , low $V_{CE(sat)}$.**/ Applications**

Low power audio amplifier, high speed switching applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Emitter

PIN 2 Collector

PIN 3 Base

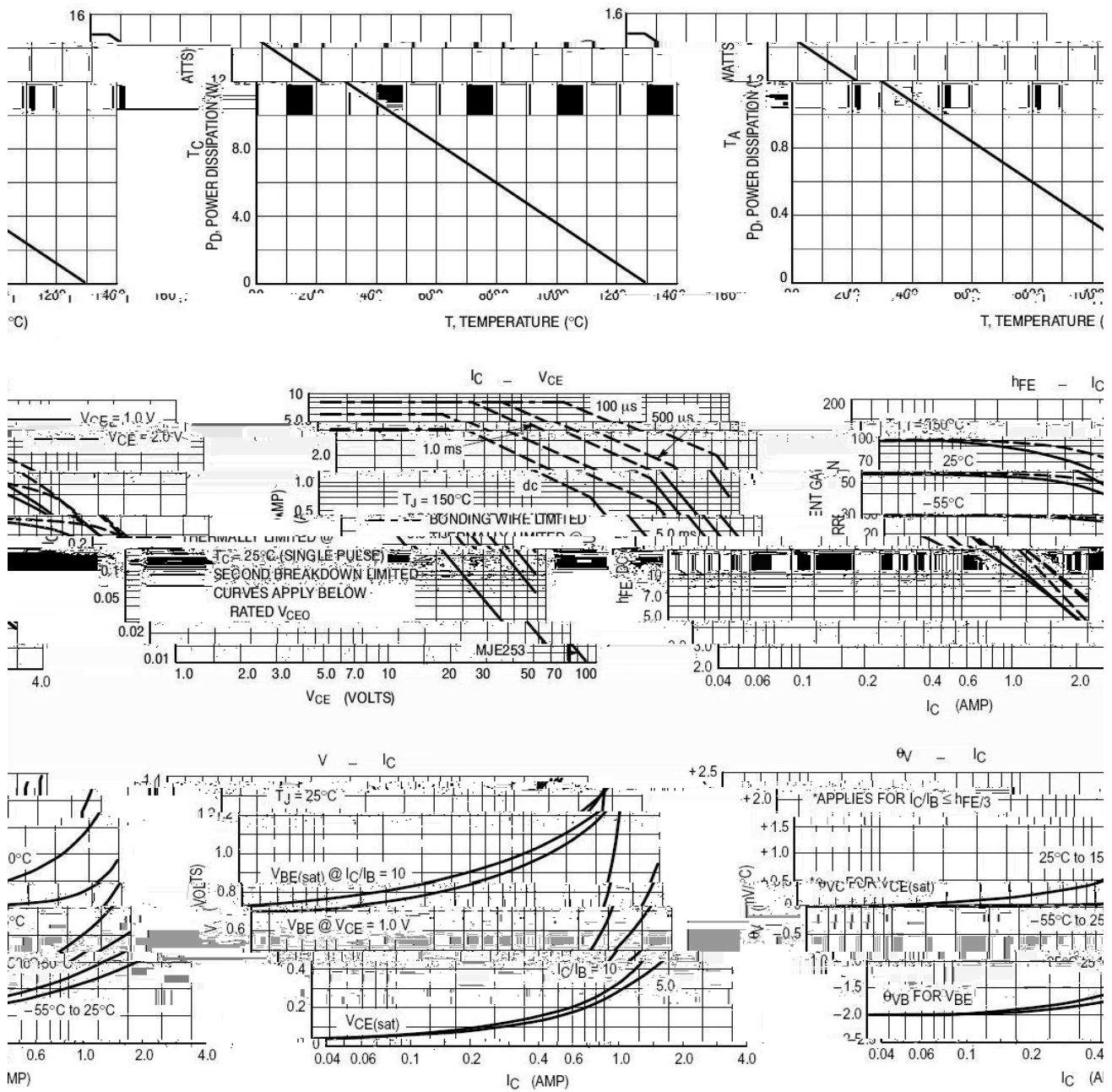
/ h_{FE} Classifications & Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-100	V
Collector to Emitter Voltage	V_{CEO}	-100	V
Emitter to Base Voltage	V_{EBO}	-7.0	V
Collector Current - Continuous	$I_{C(1)}$	-4.0	A
	$I_{C(2)}$	-8.0	A
Peak Collector Current	I_B	-10	A
Collector Power Dissipation	P_D	1.5	W
Collector Power Dissipation	$P_D(T_c=25^{\circ}C)$	15	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-10mA$ $I_B=0$	-100			V
Collector Cut-Off Current	$I_{CBO(1)}$	$V_{CB}=-100V$ $I_E=0$			-0.1	μA
	$I_{CBO(2)}$	$V_{CE}=-100V$ $T_c=125^{\circ}C$			-0.1	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-7.0V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0V$ $I_C=-200mA$	40		180	
	$h_{FE(2)}$	$V_{CE}=-1.0V$ $I_C=-1.0A$	15			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-500mA$ $I_B=-50mA$			-0.3	V
	$V_{CE(sat)(2)}$	$I_C=-1.0A$ $I_B=-100mA$			-0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-2.0A$ $I_B=-200mA$			-1.8	V
Base to Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=-1.0V$ $I_C=-500mA$			-1.5	V

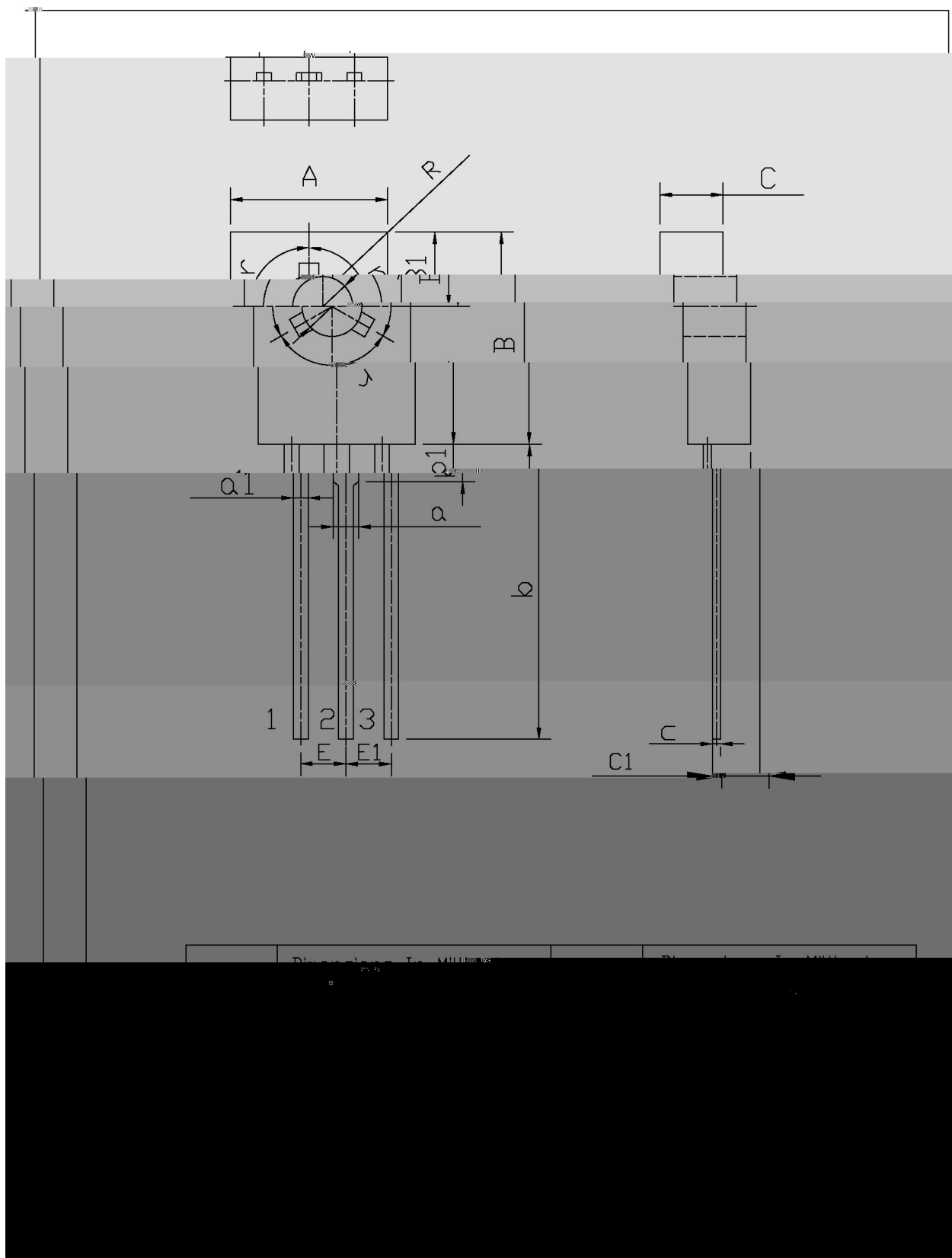
/ Electrical Characteristic Curve



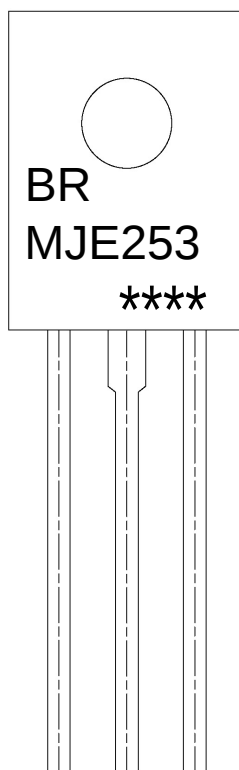
/ Package Dimensions

T□-126

单位: mm



/ Marking Instructions



BR

MJE253

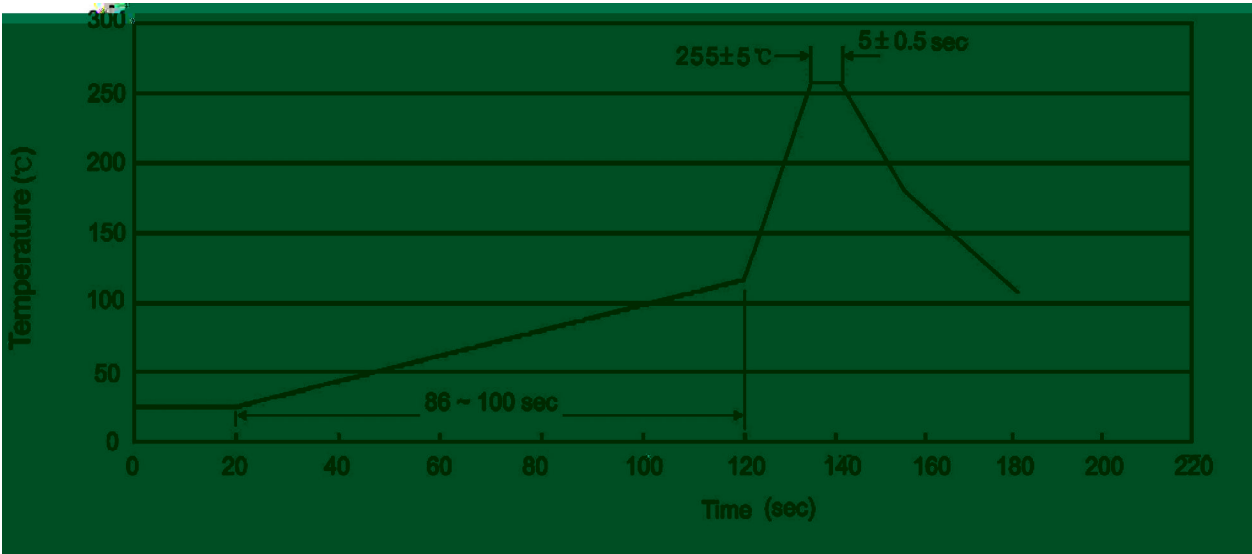
Note:

BR: Company Code

MJE253: Product Type.

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

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



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

,

Time:60~90sec.
- 2.Peak Temp.:255±5

,

Duration:5±0.5sec.
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 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-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ 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-126/F	65	26	1,690	5	8,450	532×31×5.6	555×164×50	575×290×180