/ Descriptions

WR0585 Ṃ Ṃ Ŀ QSQ Æ Ṁ ɥ s ǁ ˥ Silicon NPN transistor in a TO-252 Plastic Package.

/ Features

Ḩ V_{CEO} ı ɤ ɔ ǁ ɯ `

Low Collector Emitter Saturation Voltage, High Current Gain.

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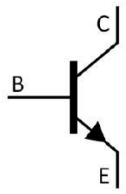
Low power audio amplifier, Low current, high speed switching applications.





PIN1 χ Base PIN 2,4 χ Collector PIN 3 χ Emitter

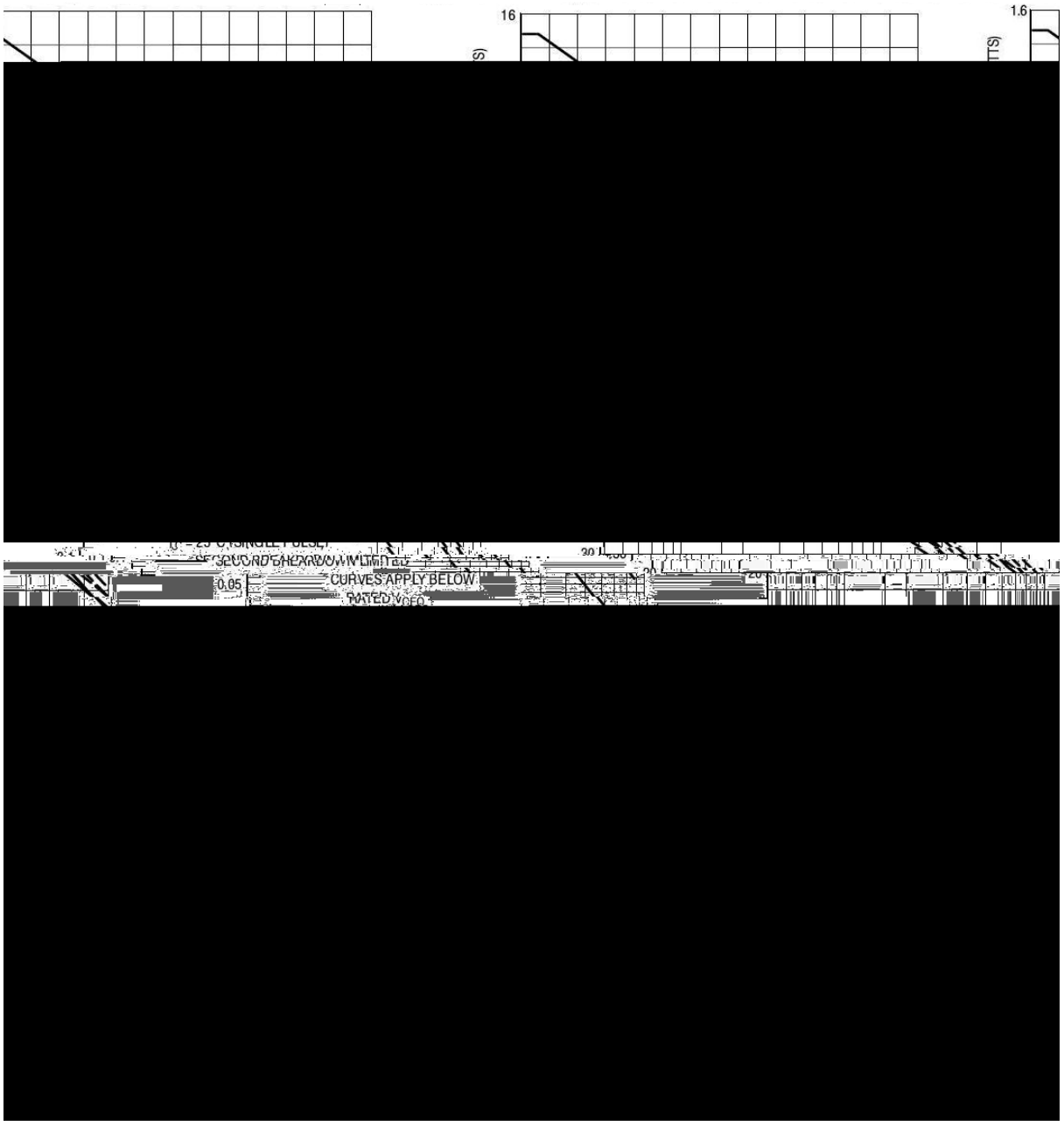
/ h_{FE} Classifications & Marking

ð ʍ ˥ ب ˝ See Marking Instructions.

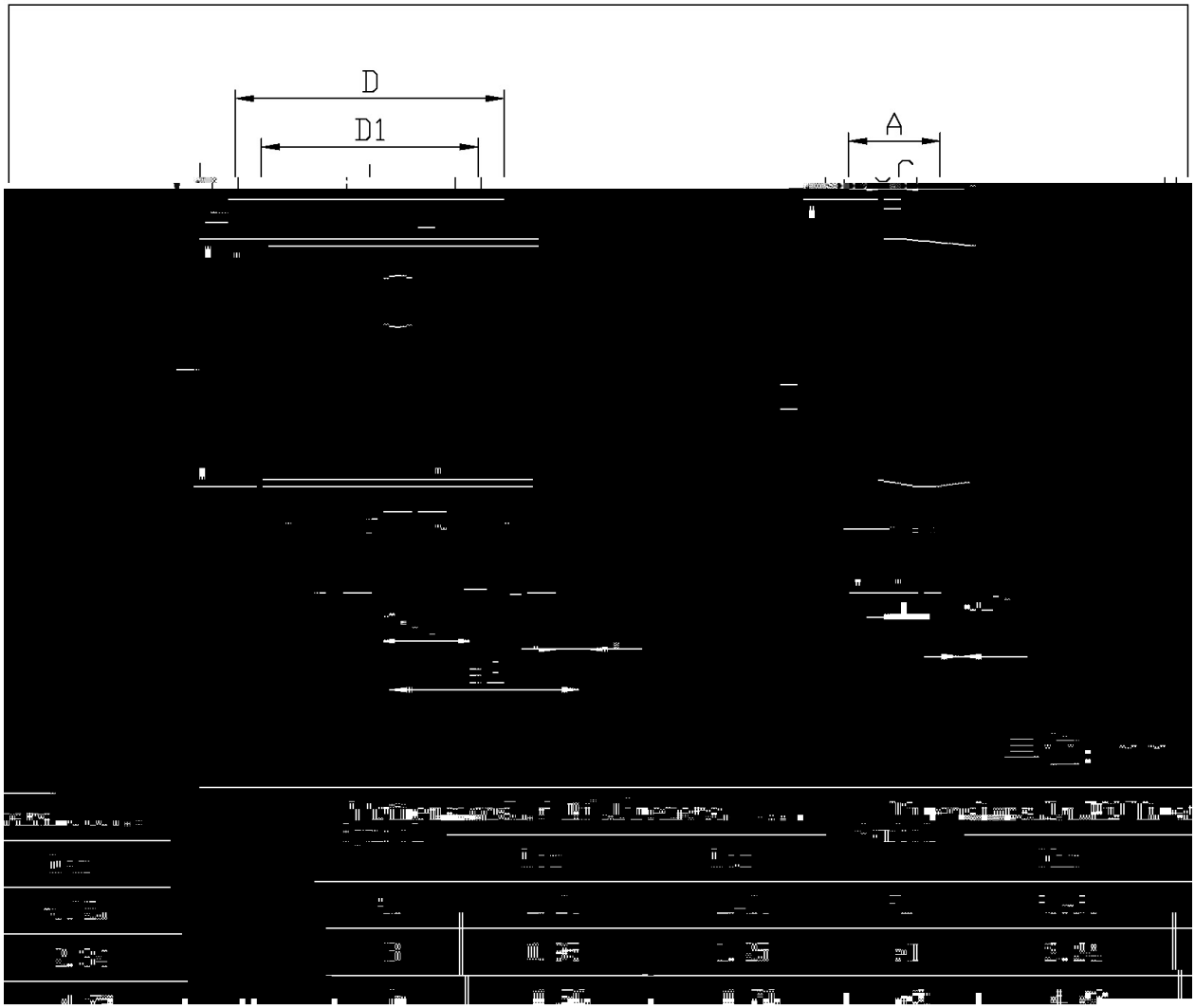
v ̈Ω̣ Parameter	ɬ N Symbol	̈Ω̣Ö Rating	D Ḫ Unit
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	$I_{C(1)}$	4.0	A
Peak Collector Current - Continuous	$I_{C(2)}$	8.0	A
Base Current - Continuous	I_B	10	A
Collector Power Dissipation	P_D	1.4	W
Collector Power Dissipation	P_D(Tc=25)	12.5	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v ̈Ω̣ Parameter	ɬ N Symbol	⊥⊥ ;ǂ T Test Conditions	ω̣ ṇ Ö Min	Ɛ ʒ Ö Typ	ω̣ ʑ Ö Max	D Ḫ 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	A
	$I_{CBO(2)}$	V_{CE}=100V Tc=125			0.1	mA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-7.0V I_C=0			0.1	A
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

/ Electrical Characteristic Curve

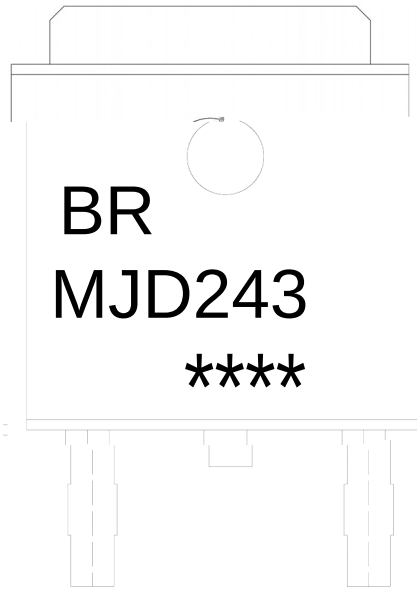


/ Package Dimensions





/ Marking Instructions

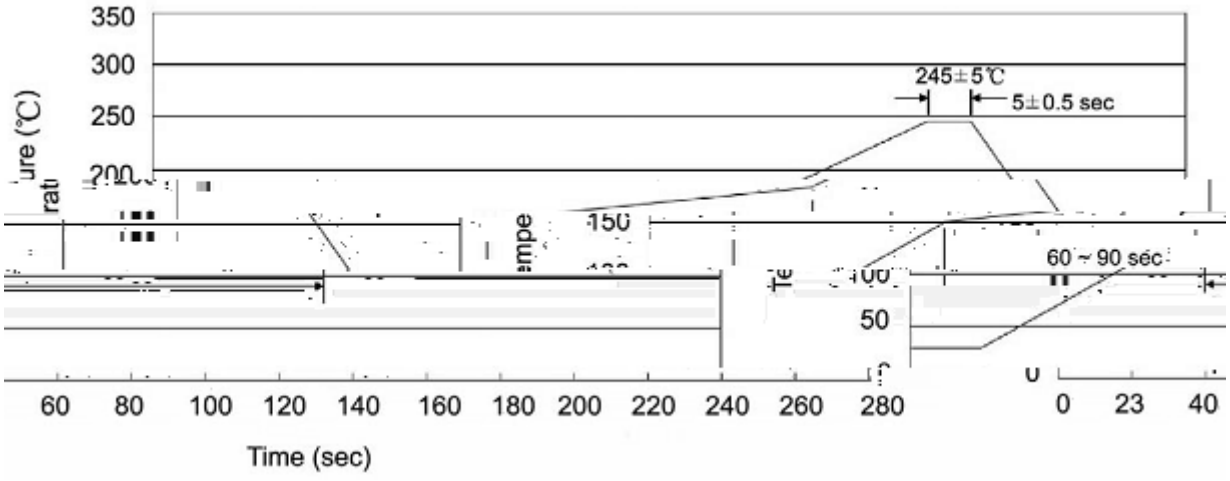


BR	
PMG576	

Note:

BR:	Company Code
MJD243:	Product Type.
****:	Lot No. Code, code change with Lot No.

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



ب ˝ χ

1 ⺊ ♬ □ ỷ 25 Ḱ 150 ɫ ı `H ڑ 60 Ḱ 90sec;

2 Š Ö □ ỷ 245 ° 5 ɫ ı `H ڑ ˋY ⺈ ⺮ 5 ° 0.5sec;

3 ì ˙ ⺈ ˛ ɔ ⺌ ỷ ⺮ 2 Ḱ 10 ɫ /sec.

Note:

1.Preheating:25~150 ɫ , Time:60~90sec.

2.Peak Temp.:245 ° 5 ɫ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɫ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ɫ `H ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ɔ` γ ⺊ / REEL

Package Type	Units					Dimension (unit mm^3)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	5	25,000	13 ×16	360×360×50	385×257×392