/ Descriptions

WR0585 ṂṂÞ QSQ ÆṀч s ‖ ㄱ Silicon NPN transistor in a TO-252 Plastic Package.

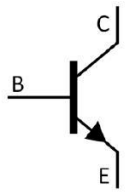
/ Features

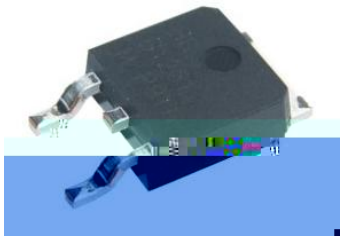
Ӈ V_{CEO} ı ぁ ↄ ㄩ щ `

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

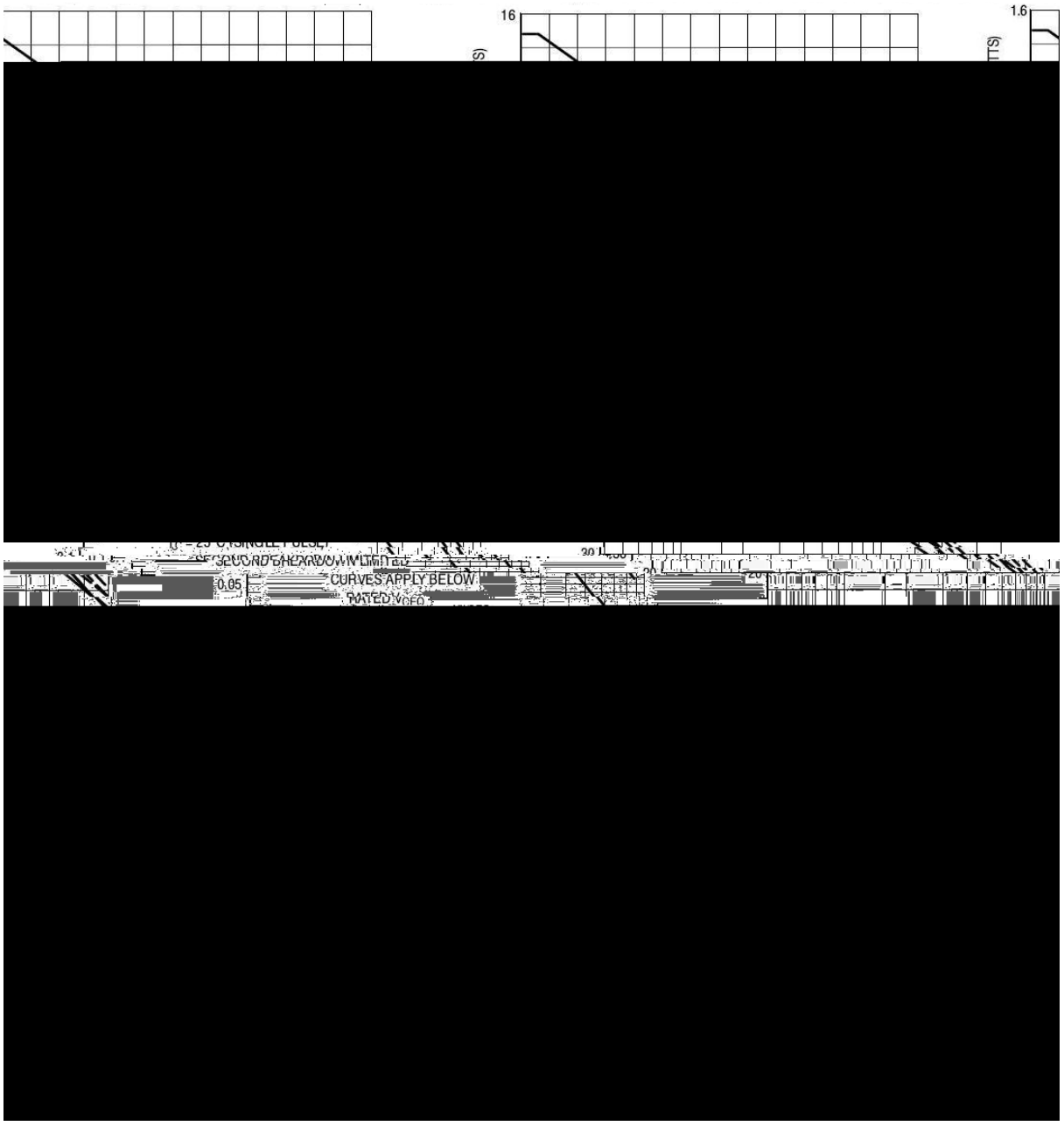
/ h_{FE} Classifications & Marking

ծ м ヶ ب ˝ See Marking Instructions.

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ч 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 ̈Ω Parameter	ϒ N Symbol	Ш :ϯ Ţ Test Conditions	ω ṇ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч 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 Tc=125			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

/ Electrical Characteristic Curve



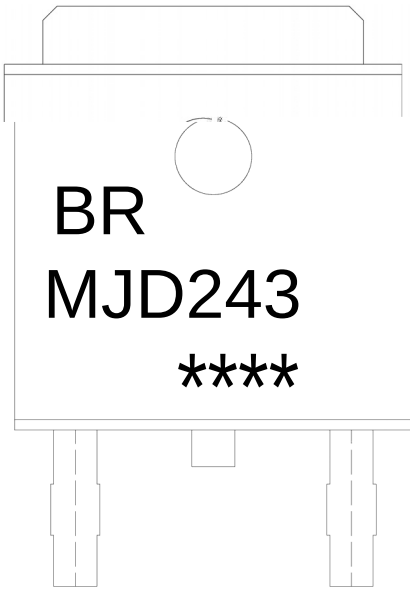
/ Package Dimensions



0.90				
0.10				
D	6.45	6.75	E3	0.60
D1	5.10	5.50	K	0.00



/ Marking Instructions

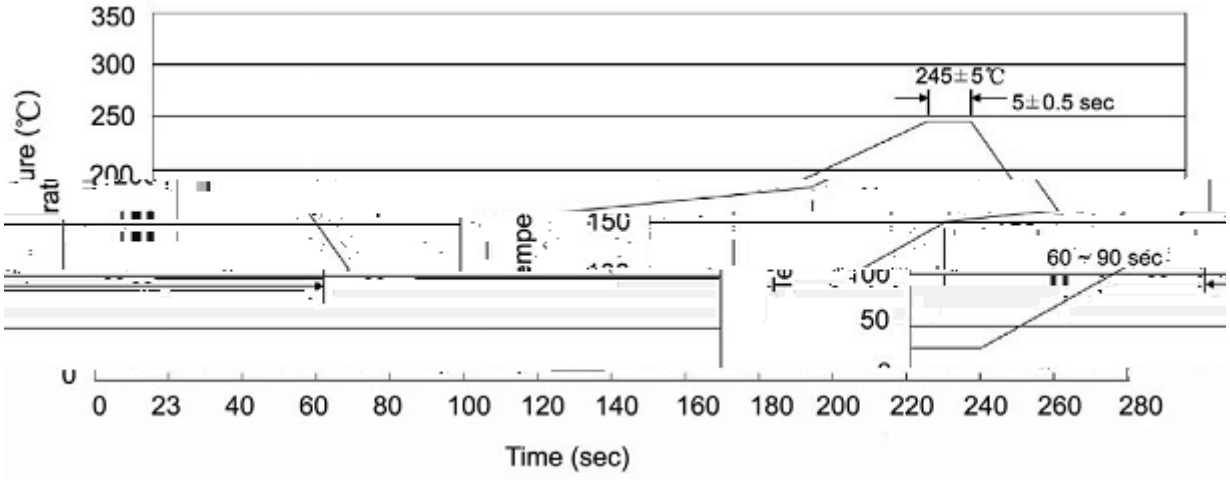


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BR χ	ѭ ϗ и Ґ
P M G576 χ	ѭ ғ β ʒ ɴ
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Note:

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 Ĺ ♬ □ ỷ 25 Ḱ 150 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ë □ ỷ 245 ° 5 ł ı `H ڑ ˙Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ﻉ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

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

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

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

ɔ ` ｙ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	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