/ Descriptions

TO-251 ṂṂ Ŀ N ێ MOS ʃ ᾧ̃ Ẕ ˥ N-CHANNEL MOSFET in a TO-251 Plastic Package.

/ Features

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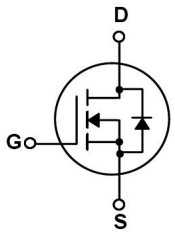
Low gate charge, low crss, fast switching.

/ Applications

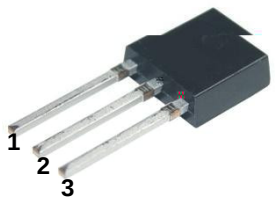
ɸ̃ ̂ ̂ ɹ ı ' GF2GF ج ̈Ω ⊃ ı ' Ầ ʉ

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

/ Equivalent Circuit



/ Pinning



PIN1 χ G PIN 2 χ D PIN 3 χ S

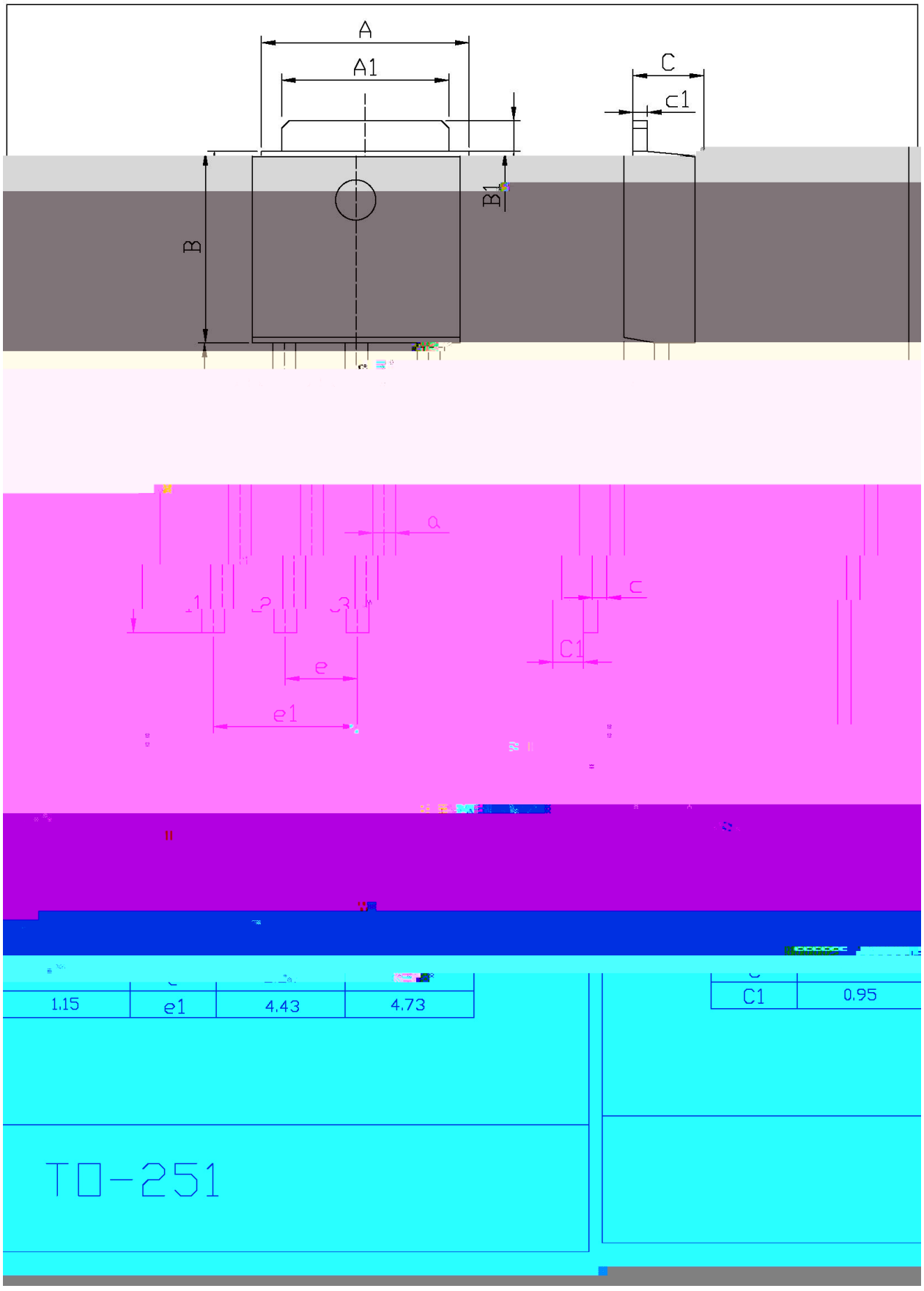
/ h_{FE} Classifications & Marking

ɔ ʍ ˥ ب ˝ See Marking Instructions.

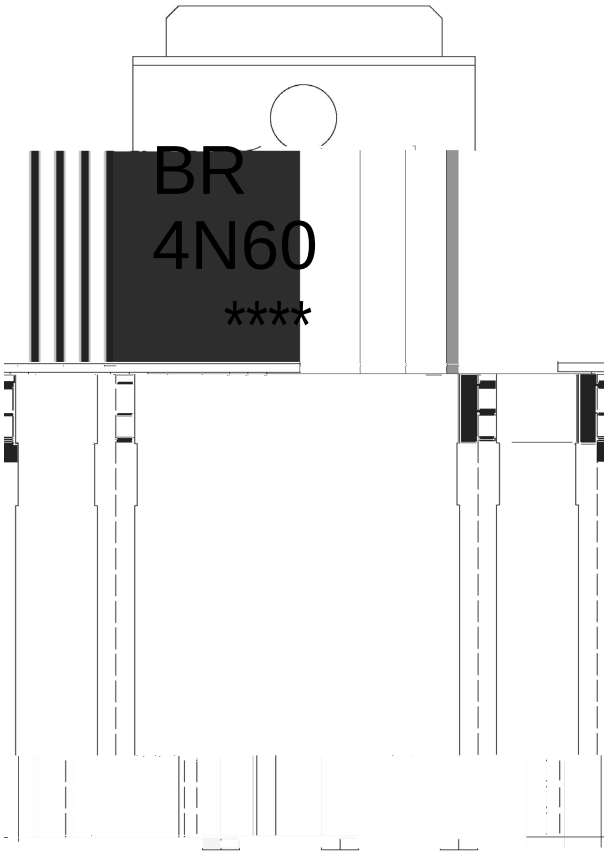
v ̈Ω Parameter	ɬ N Symbol	̈Ω Ö Rating	D Ḫ Unit
Drain-Source Voltage	V_{DSS}	600	V
Drain Current	I_D(Tc=25)	4.0	A
Drain Current	I_D(Tc=100)	2.5	A
Drain Current - Pulsed	I_{DM}	16	A
Gate-Source Voltage	V_{GSS}	±30	V
Single Pulsed Avalanche Energy	E_{AS}	240	mJ
Repetitive Avalanche Energy	E_{AR}	10	mJ
Avalanche Current	I_{AR}	4.0	A
Power Dissipation	P_D(Tc=25)	100	W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to 150	

v ̈Ω Parameter	ɬ N Symbol	⊥⊥ ;ǀ Ţ Test Conditions	ω ṇ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ḫ Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250 A	600			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=600V V_{GS}=0V			10	A

/ Package Dimensions



/ Marking Instructions



ب ˝ χ

BR χ	ѭ ҙ ᴵ Ҕ
7Q93 χ	ѭ ҂ ᴺ Ҕ
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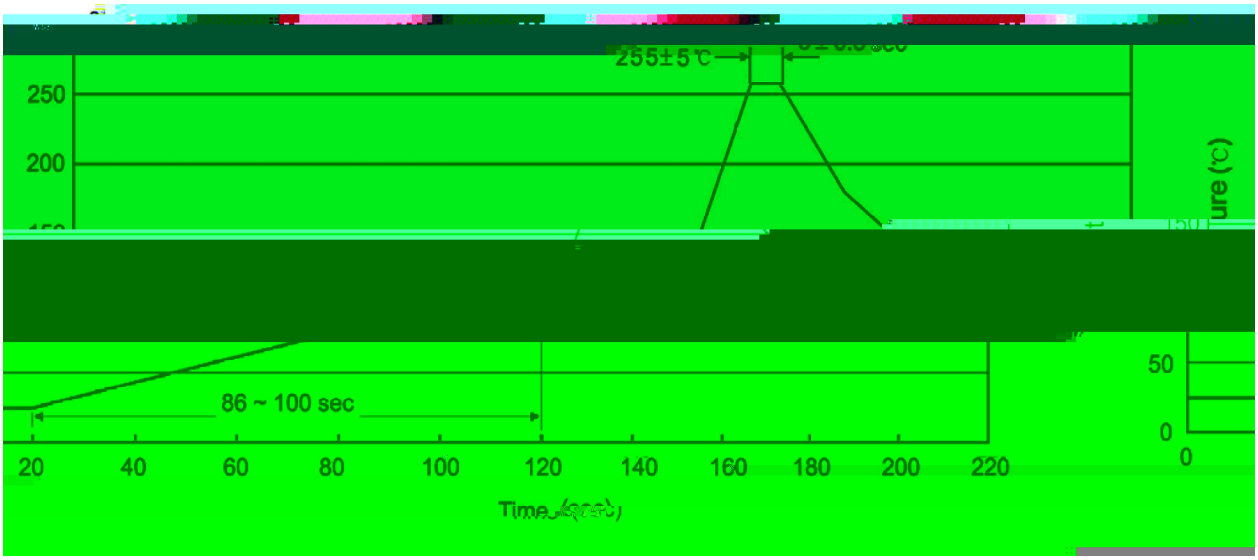
Note:

BR:	Company Code
4N60:	Product Type.
****:	Lot No. Code, code change with Lot No.

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



ب ˝ χ

1 ǂ ♬ □ ỷ 25 Ḱ 150 ɬ ı `H ڑ 60 Ḱ 90sec;

2 Š Ö □ ỷ 255 ° 5 ɬ ı `H ڑ ˋY ⺈ ⺮ 5 ° 0.5sec;

3 ì ˙ ⺈ ˛ ɔ ھ ỷ ⺮ 2 Ḱ 10 ɬ /sec.

Note:

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

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ɬ `H ڑ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

ˋΩ ţ ɣ ŁŁ / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-251	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195

ˇ ˊ ɣ ŁŁ / 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	