/ Descriptions

TO-251 ĮĮĖ N ŏs MOS ĵ ŵ Ẑ ˥ N-CHANNEL MOSFET in a TO-251 Plastic Package.

/ Features

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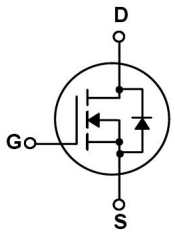
Low gate charge, low crss, fast switching.

/ Applications

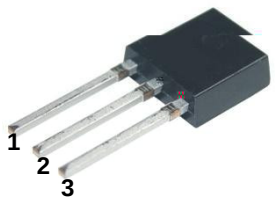
ɮ̂ ɔ˂ ı ' GF2GF ɕ Ω ⊐ ı ' Ầ ʜ

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

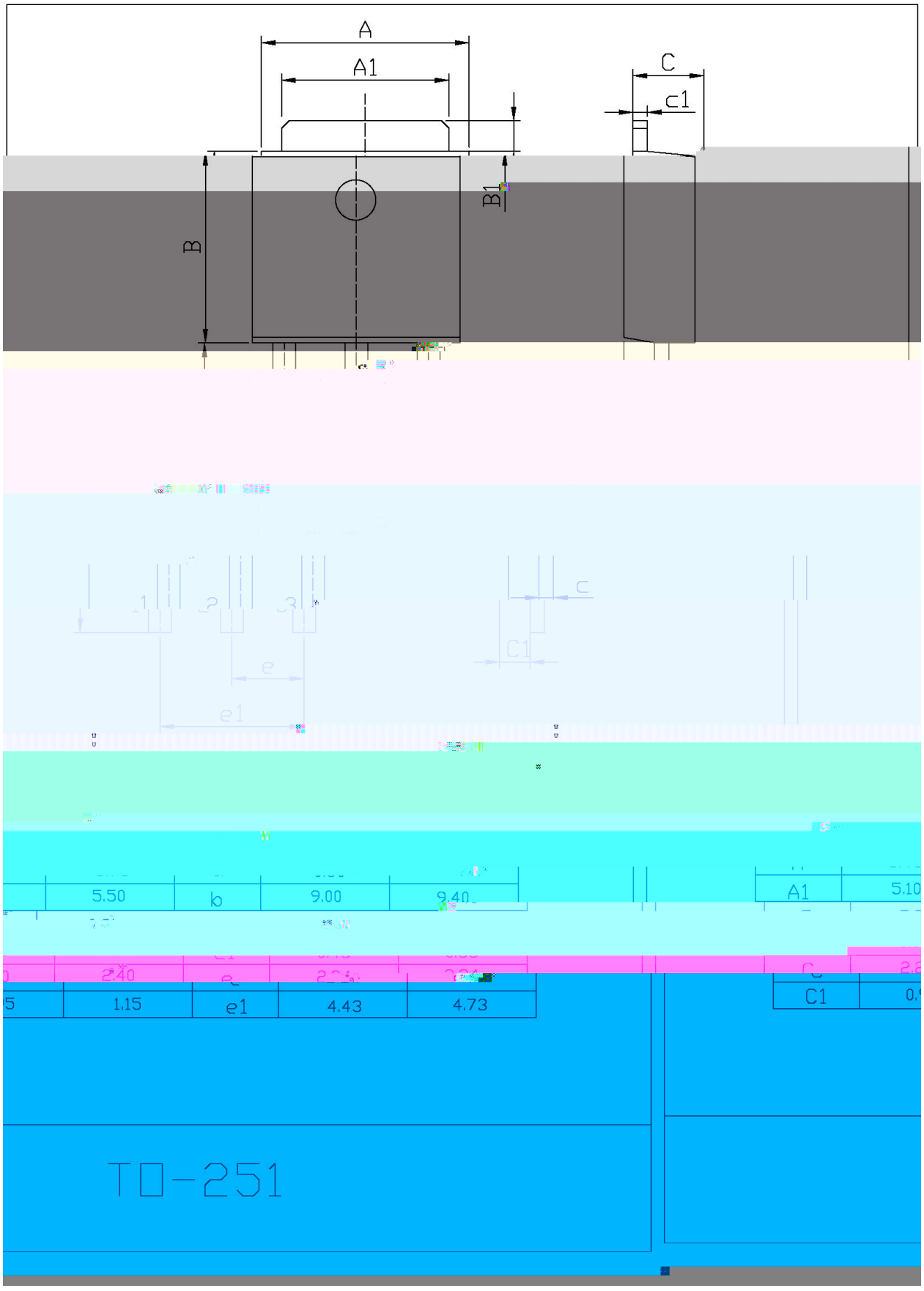
/ h_{FE} Classifications & Marking

ȏ ᴍ ˥ ب ˝ See Marking Instructions.

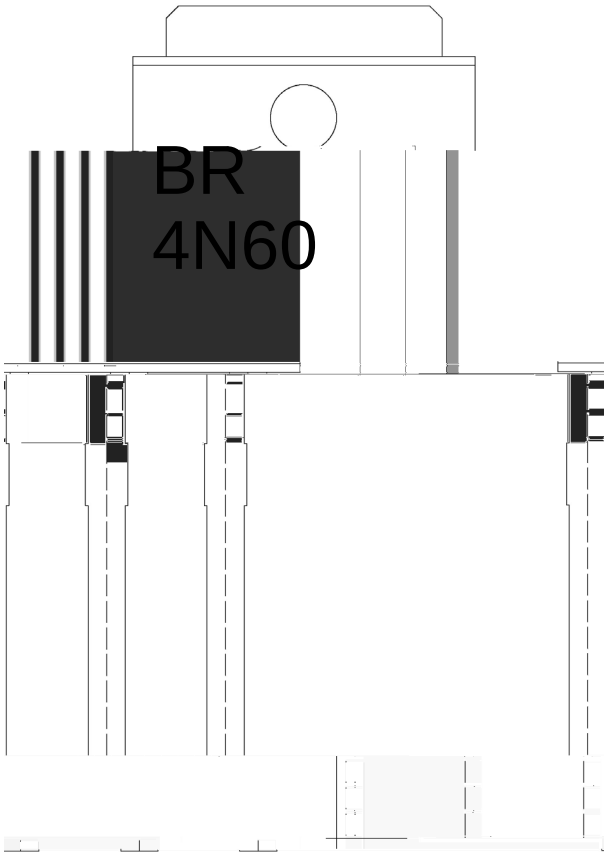
v ¨Ω Parameter	ϒ N Symbol	¨Ω Ö Rating	D Ĥ Unit
Drain-Source Voltage	V_{DSS}	600	V
Drain Current	I_D(Tc=25)	4.0	A
Drain Current	I_D(Tc=100)	2.5	A
Drain Current - Pulsed	I_{DM}	16	A
Gate-Source Voltage	V_{GSS}	±30	V
Single Pulsed Avalanche Energy	E_{AS}	240	mJ
Repetitive Avalanche Energy	E_{AR}	10	mJ
Avalanche Current	I	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	ϒ N Symbol	╨ :¦ ţ Test Conditions	ώ ņ Ö Min	Ɛ ʒ Ö Typ	ώ ² Ö Max	D Ĥ Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250μA	600			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=600V V_{GS}=0V			10	μA

/ Package Dimensions



/ Marking Instructions



ᴗ ˝ χ	
BR χ	ᵻᵿ ϛ ᴺ Γϧ
7Q93 χ	ᵻᵿ ȝ ᴺ Γϧ
---- χ	ᵻᵿ ᵻ ᶠ ᾔ ᴺ Γϧ ᵻ ₺ ᵻ ᶠ ᾔ ᴺ Ψ ᖘ

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

2 Š Ө □ ỷ 255 ° 5 ł ı `H ڑ `Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ﾑ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

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

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

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

¨Ω ţ ｲ Ł / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

˛ ｱ ｲ Ł / TUBE

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm^3)
	只 套管	