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TO-251 ṂṂ Ŀ N ڪ ʆ ῴ Ẕ ၵ

N-CHANNEL MOSFET in a TO-251 Plastic Package.

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V_{DS} (V) = 100V I_D =37A (V_{GS} = ±20V)

$R_{DS(ON)}$@10V≤25mR(Typ.20mR)

$R_{DS(ON)}$@4.5V≤35mR(Typ.25mR)

ῃ ғ ᵝ HF Product.

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Boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.

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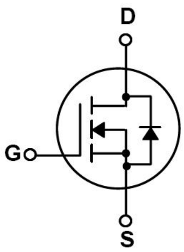

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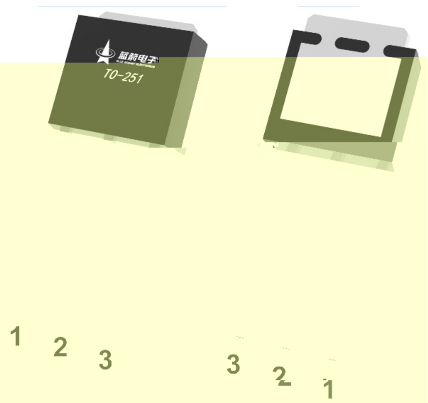

PIN1 χ G PIN 2 χ D PIN 3 χ S

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See Marking Instructions.

v ‴Ω Parameter		ϒ N Symbol	‴Ω Ö Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	100	V
Drain Current		I_D(Tc=25)	37	A
Drain Current - Pulsed		I_{DM}	117	A
Gate-Source Voltage		V_{GS}	±20	V
Avalanche Current		I_{AS}	7	A
Single Pulsed Avalanche Energy		E_{AS}	14.4	mJ
Power Dissipation		P_D(Tc=25)	68	W
Storage Temperature Range		T_{stg}	-55 150	
Thermal Resistance-Junction to Ambient	t ≤ 10s	$R_{\theta JA}$	20	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=50V R_L=5.5Ω R_{GEN}=3.0Ω		5		ns
Turn-On Rise Time	t_r			3.2		
Turn-Off Delay Time	$t_{d(off)}$			21		
Turn-Off Fall Time	t_f			3		

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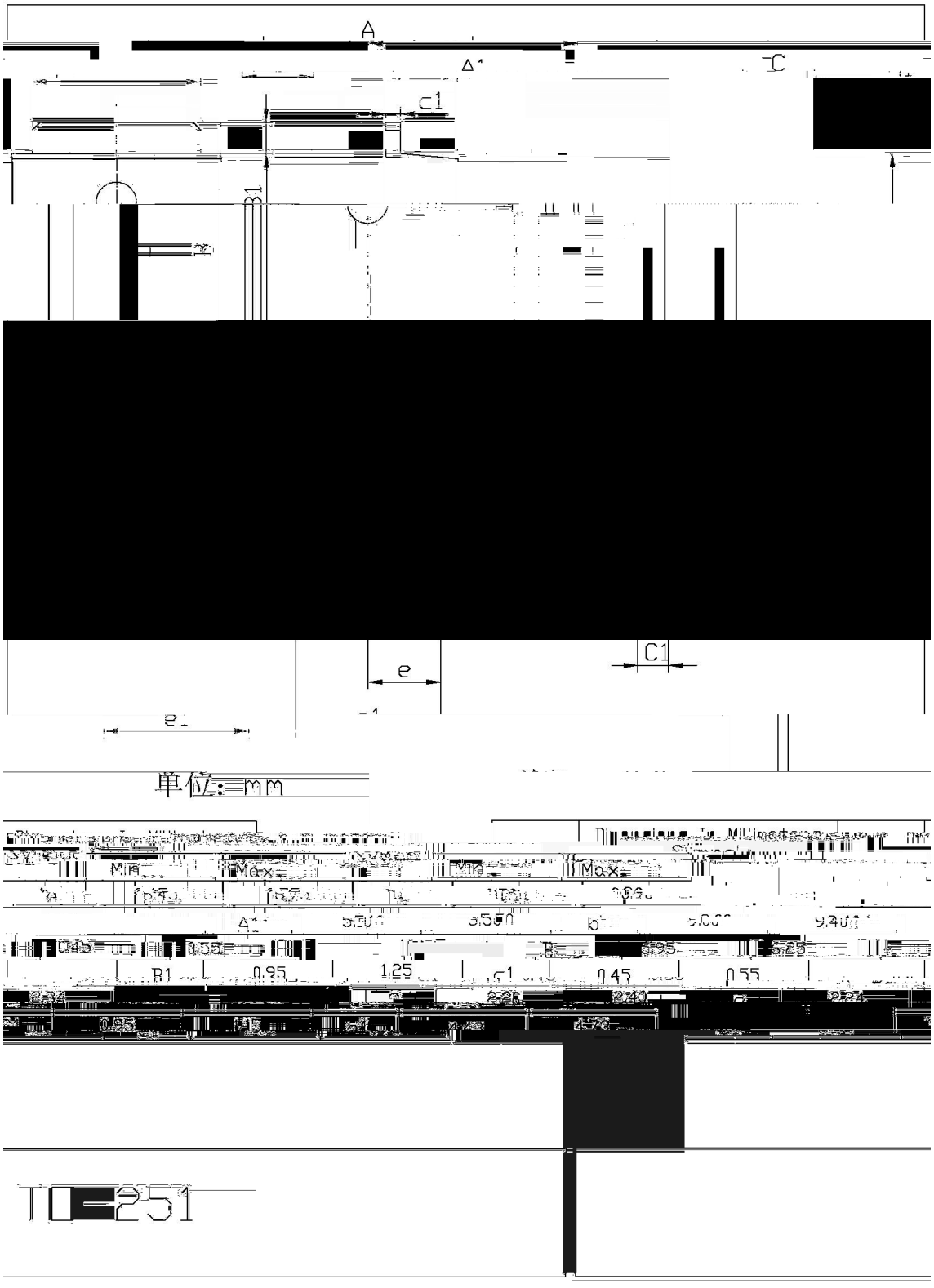

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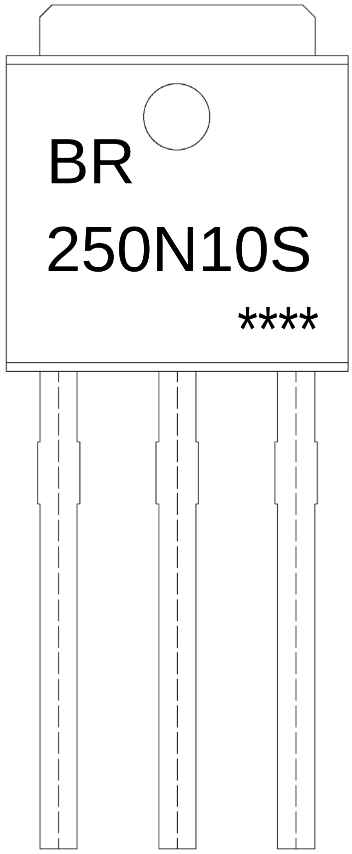

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Note:

BR:　　Company Code

250N10S:　　Product Type Code

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

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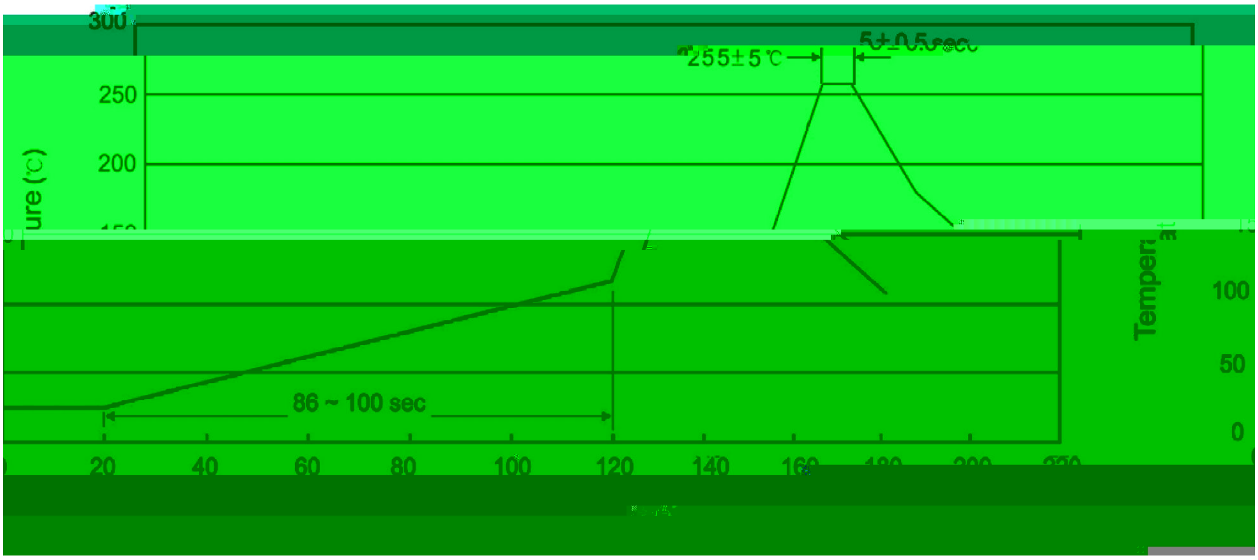

ب ˝ χ
1 ἱ ♬ □ ẙ 25 Ḱ 150 ɫ ı `H ڙ 60 Ḱ 90sec;
2 Ṧ Ӫ □ ẙ 255 ° 5 ɫ ı `H ڙ 'Y ﾒ ᵯ 5 ° 0.5sec;
3 ì ˙ ㇷ ˛ ɔ ஃ ẙ ᵯ 2 Ḱ 10 ɫ /sec.

Note:
1.Preheating:25~150 ɫ , Time:60~90sec.
2.Peak Temp.:255 ° 5 ɫ , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 ɫ /sec.

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