

特点

TO-251 塑封 N 沟道 MOSFET

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

参数

$V_{DS} (V) = 100V$ $I_D = 37A$ ($V_{GS} = \pm 20V$)

$R_{DS(ON)} @ 10V \leq 25m\Omega$ (Typ. 20mΩ)

$R_{DS(ON)} @ 4.5V \leq 35m\Omega$ (Typ. 25mΩ)

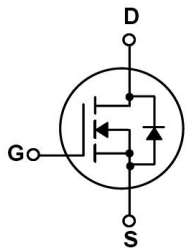
高频 HF Product.

应用

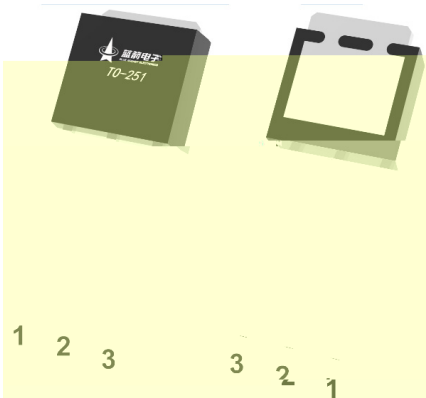
LED 背光、同步整流器、消费类、电信、工业电源和 LED 背光。

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

封装



封装



PIN 1 G

PIN 2 D

PIN 3 S

标记

见“标记说明”

See Marking Instructions.

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	100	V
Drain Current		$I_D(T_c=25^\circ\text{C})$	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		$P_D(T_c=25^\circ\text{C})$	68	W
Storage Temperature Range		T_{stg}	-55 ~ 150	
Thermal Resistance-Junction to Ambient	$t \leq 10\text{s}$	$R_{\theta JA}$	20	/W

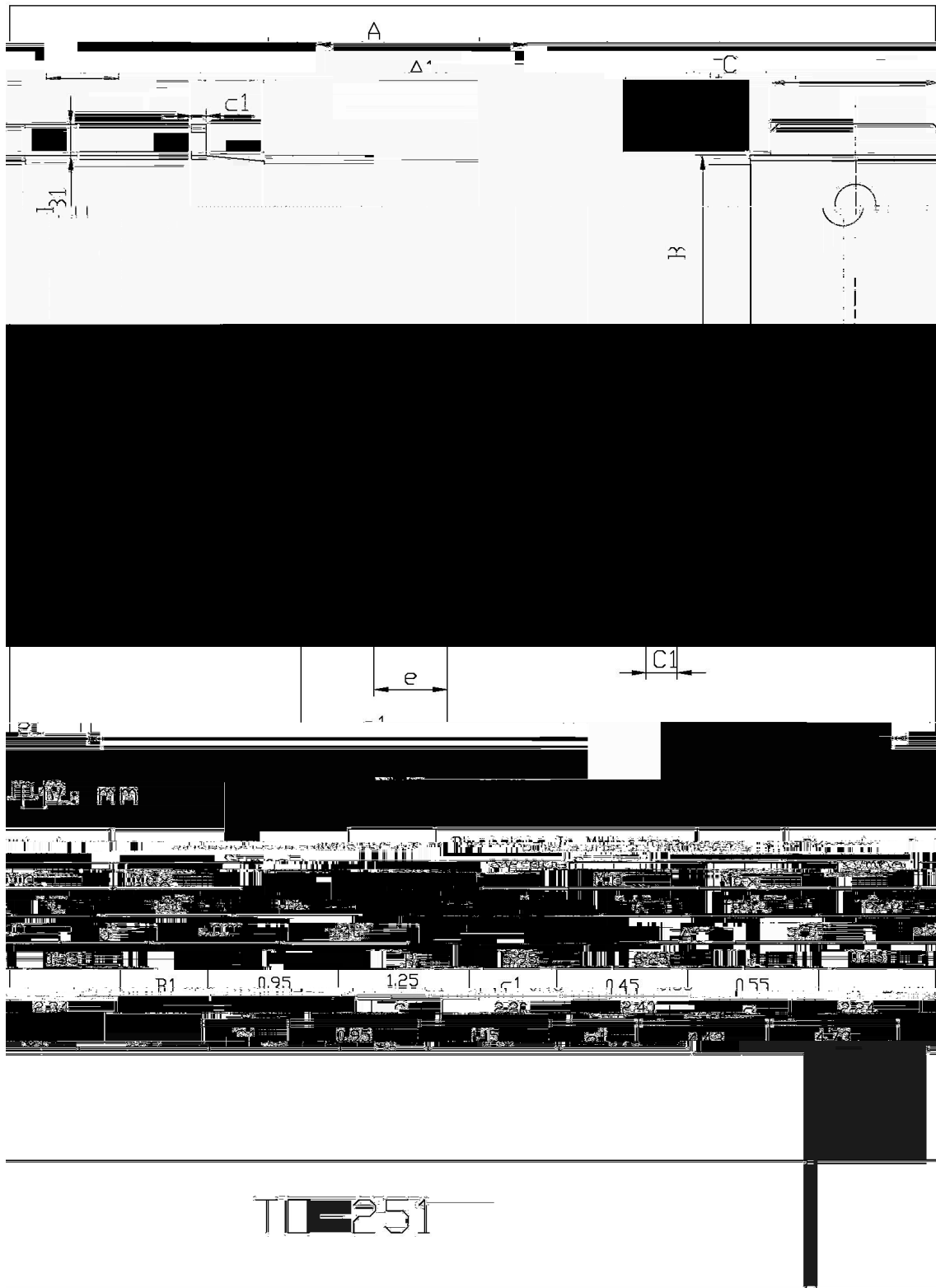
参数

13A

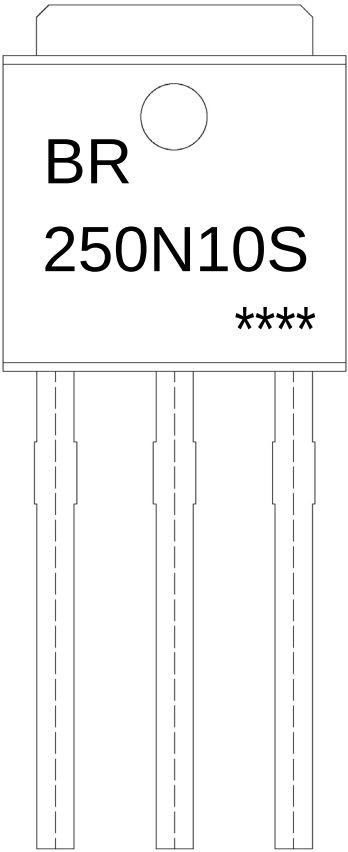
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	t _{d(on)}	V _{GS} =10V V _{DS} =50V R _L =5.5Ω R _{GEN} =3.0Ω		5		ns
Turn-On Rise Time	t _r			3.2		
Turn-Off Delay Time	t _{d(off)}			21		
Turn-Off Fall Time	t _f			3		

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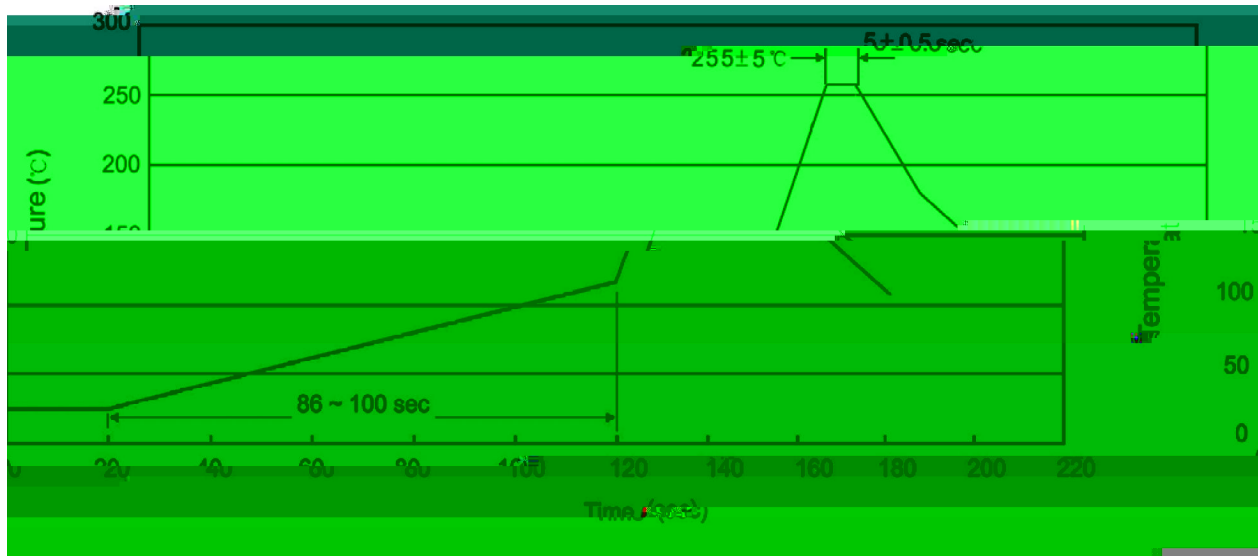


1. 外形图



封装形式	TO-18
BR	公司代码
583Q43V	产品代码
----	批次代码 1 2 3 4 5 6 7 8 9 10
Note:	
BR:	Company Code
250N10S:	Product Type Code
****:	Lot No. Code, code change with Lot No

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1. 150 ~ 255 °C, Time: 60 ~ 90sec;
2. 255 ± 5 °C, Time: 5 ± 0.5sec;
3. Cooling Speed: 2 ~ 10 °C /sec.

Note:

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

1 0 q 1 Y T 2 r5 - 08829D