

# BRCS015N10SHTLQ

Rev.A Jun.-2025

## 5 é / Descriptions

TOLL-8L / x N ?ú 3 « | • ’ ož  
N-Channel MOSFET in a TOLL-8L Plastic Package .

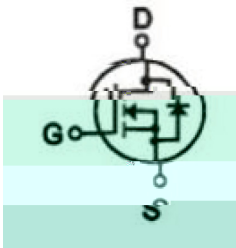
## α a / Features

$V_{DS}(V)=100V$   $I_D=330A$   
 $R_{DS(ON)}@10V$  "1.5m Ÿ(Typ.1.2m Ÿ)  
... ` AEC-Q101 ö Ö ä U ´ Å } L k —)í D }ož Qualified to AEC-Q101 Standards for High Reliability, HF Product.

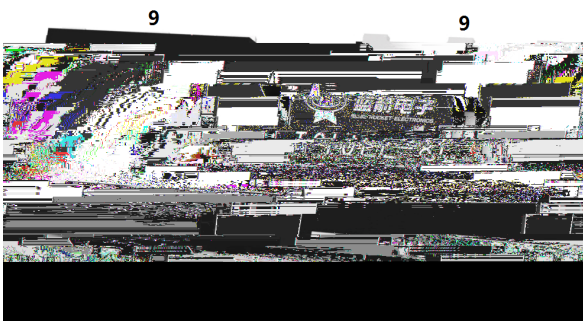
## Đ ÷ / Applications

DC/DC ô E ~o• › •¼o• Ñ Ü k á V ñ • } Lož  
DC/DC converter,Power switch,Motor drives, Meet the stringent requirements of automotive applications.

## Ã W ] Ô . / Equivalent Circuit



## • Ű - æ / Pinning



PIN1 ÖG    PIN2 Ã3 Ã4 Ã5 Ã6 Ã7 Ã8 ÖS    PIN9 ÖD

## , M V / Marking

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See Marking Instructions.

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**DATA SHEET**

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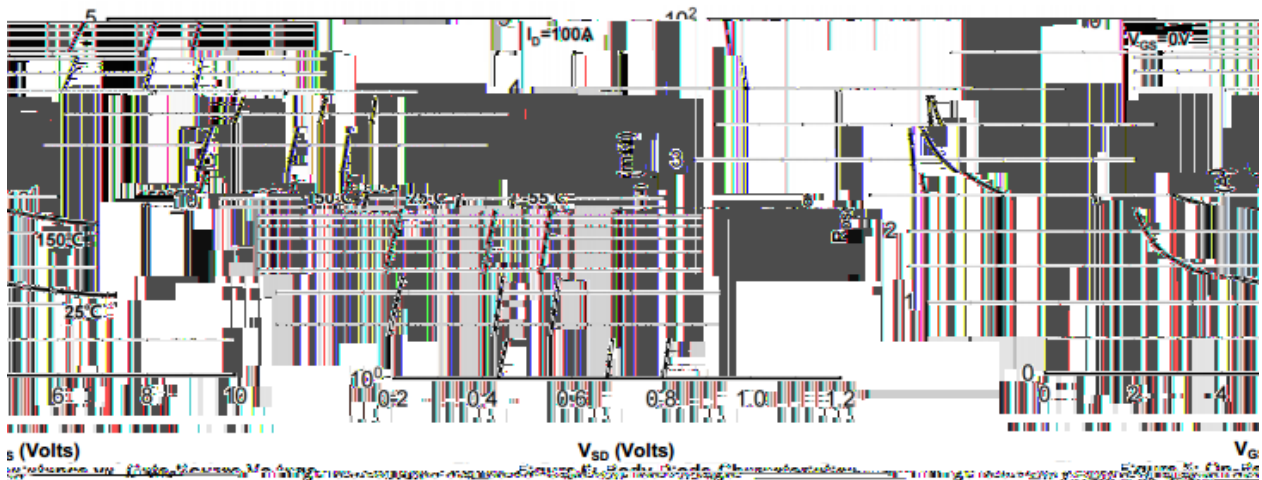
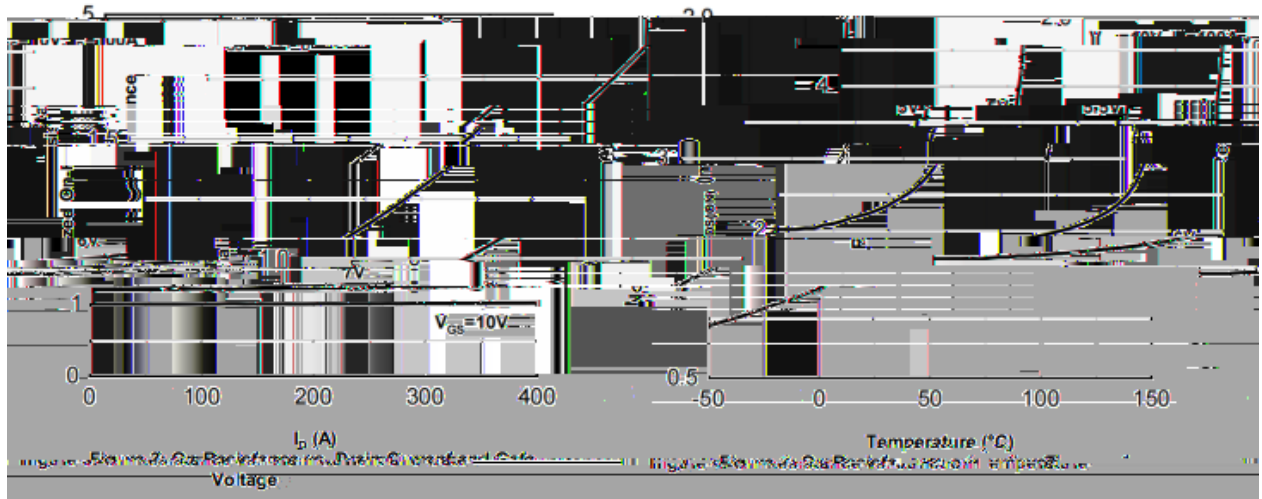
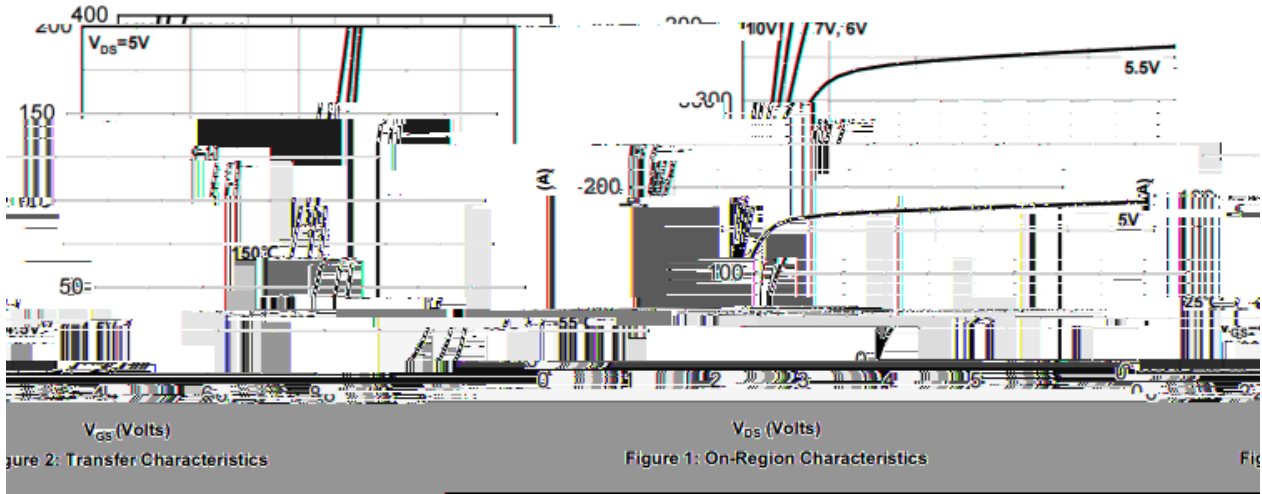


DATA SHEET

## Electrical Characteristics(Ta=25 ; )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_G=6 \mu$ $I_D=100A$		81		ns
Turn-On Rise Time	$t_r$			178		
Turn-Off Delay Time	$t_{d(off)}$			167		
Turn-Off Fall Time	$t_f$			68		
Reverse Recovery Time	$t_{rr}$	$I_{DS} = 50A,$ $V_{DS}=50V$ $di/dt=100 A/ - s$		92		ns
Reverse Recovery Charge	$Q_{rr}$			200		nC

Electrical Characteristic Curve



Electrical Characteristic Curve

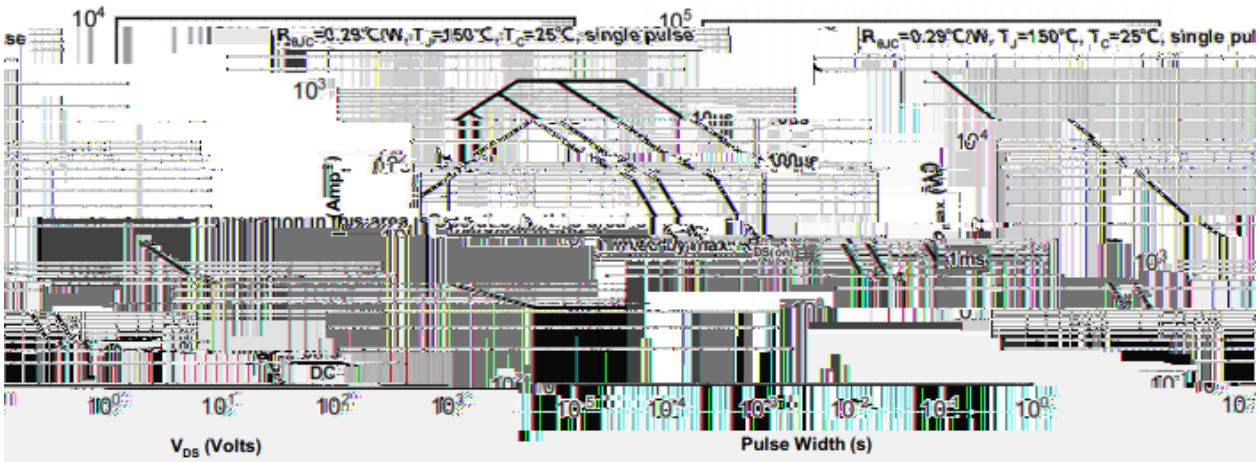
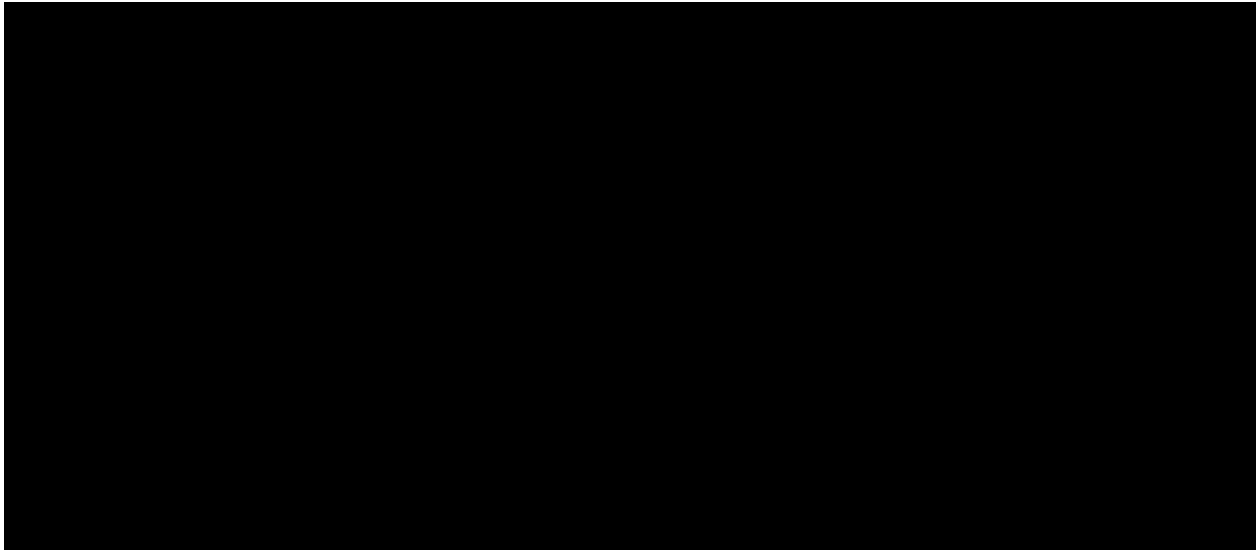


Figure 9: Maximum Forward Biased Safe Operating Area

Figure 10: Single Pulse Power Rating Junction-to-Ambient



Electrical Characteristic Curve

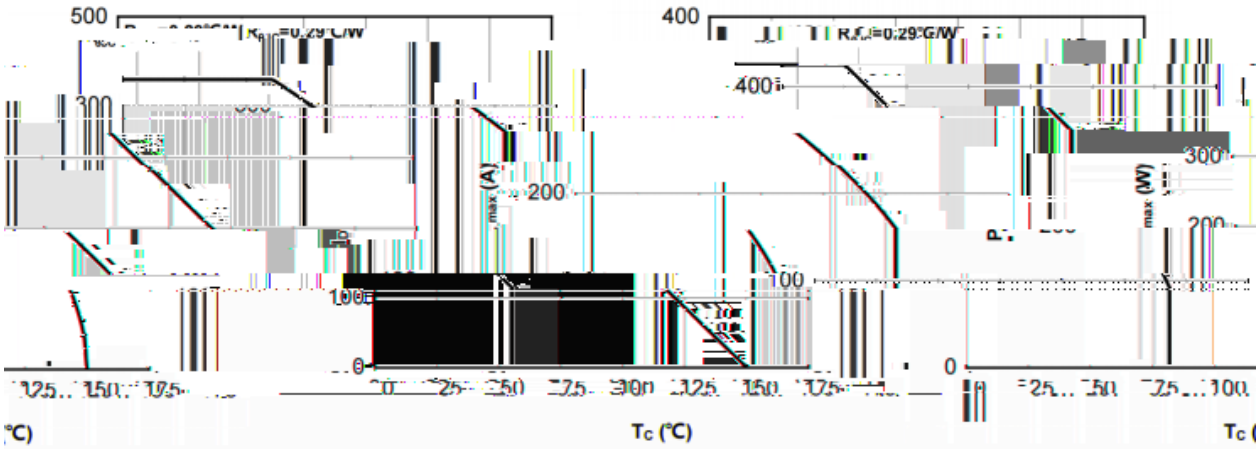
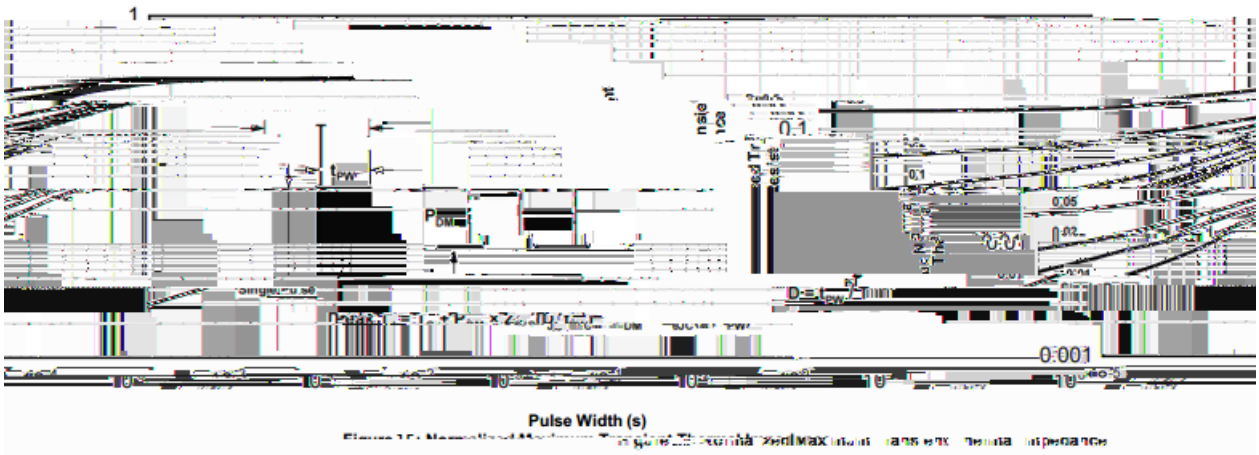


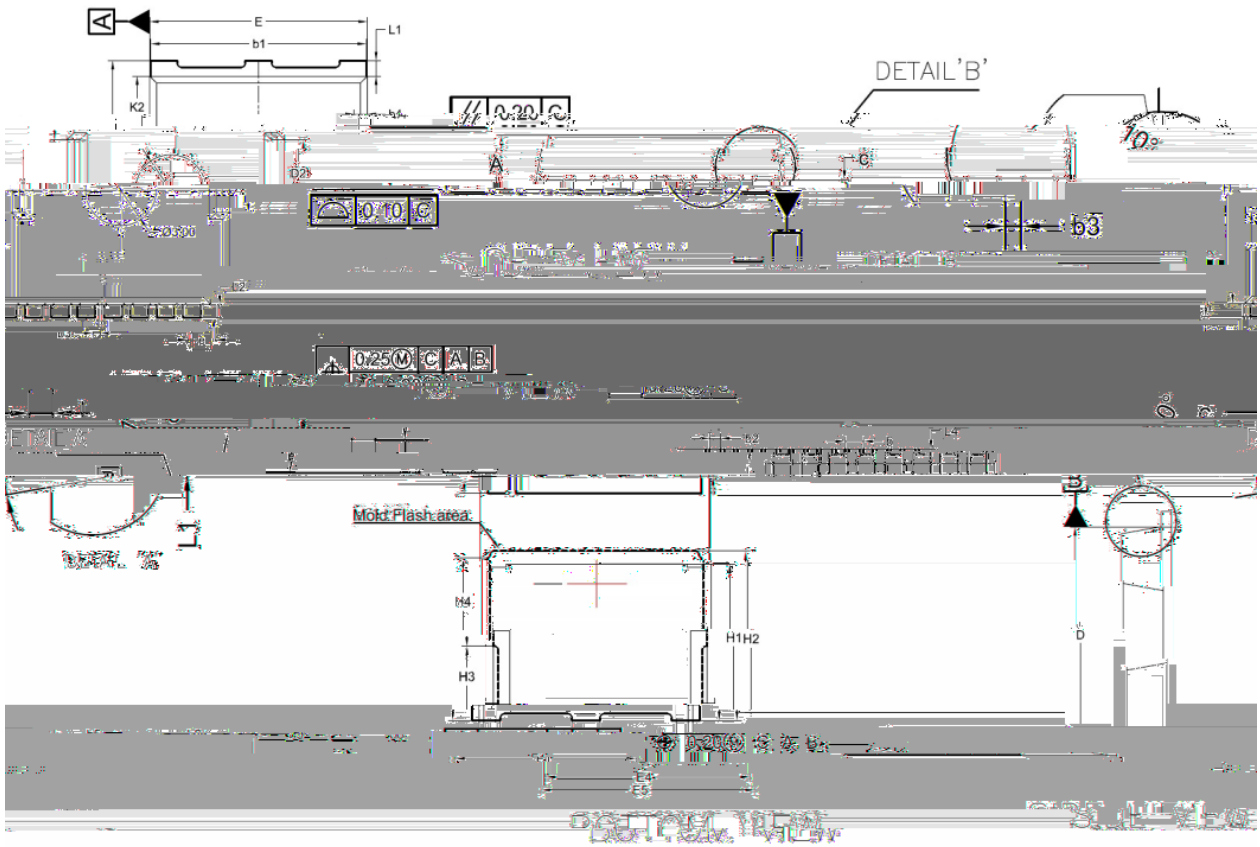
Figure 13: Max. Power Dissipation vs. Case Temperature      Figure 14: Max. Continuous Drain Current vs. Case Temperature



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Ø □ = ) ∅ / Package Dimensions

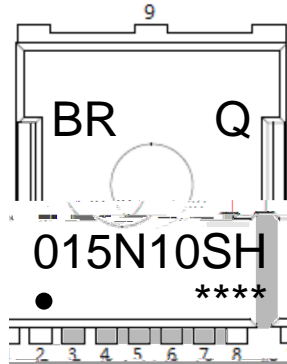


9_SHU	*OSKTYOUTY / T 3OR			9_SHU	*OSKTYOUTY / T 3OR			RORSKZKXY
	3 / 4	4 5 3	3 ' >		3 / 4	4 5 3	3 ' >	
'				H				
l				H				
*				H				
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K		( 9 )		H				
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## , M y f / Marking Instructions



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Note y

BR y Company Code

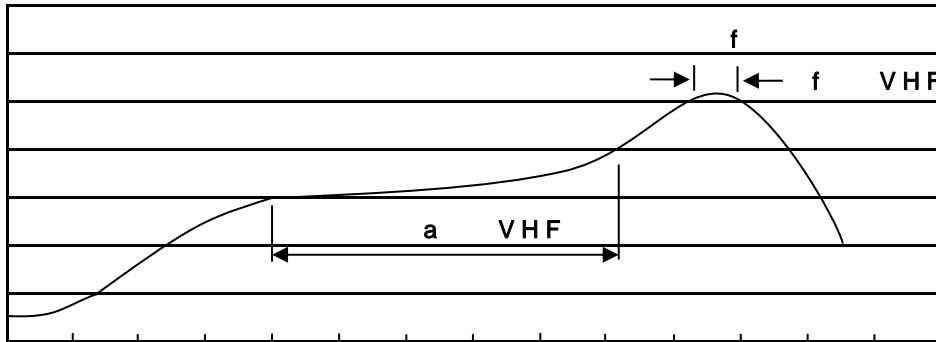
Q: Automobile halogen-free product Code

015N10SH y Product Type Code

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

šWD t...•Žϕ (x/ ) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



**7LPH VHF**

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Note:

- 1. Preheating: 150~200 - , Time: 60~120sec.
- 2. Peak Temp.: 255 r5 - , Duration: 5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

**Resistance to Soldering Heat Test Conditions**

Temp.: 260±5      Time: 10±1 sec

**Packaging SPEC.**

2 & x / REEL

Package Type / x ¥ "	Units ;>û iH					Dimension ;>û p . (unit /Enm <sup>3</sup> )		
	Units/Reel Q 2 &	Reels/Inner Box 2 & "	Units/Inner Box Q "	Inner Boxes/Outer Box " "	Units/Outer Box Q "	Reel	Inner Box	Outer Box
TOLL-8L	2,000	1	2,000	6	12,000	13"x24	360x360x50	380x335x366

**Notices**