

# BRCS015N10SHTLQ

Rev.A Jun.-2025

## 5 é / Descriptions

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

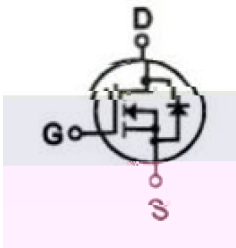
## α a / Features

$V_{DS}(V)=100V$   $I_D=330A$   
 $R_{DS(ON)}@10V$  "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.

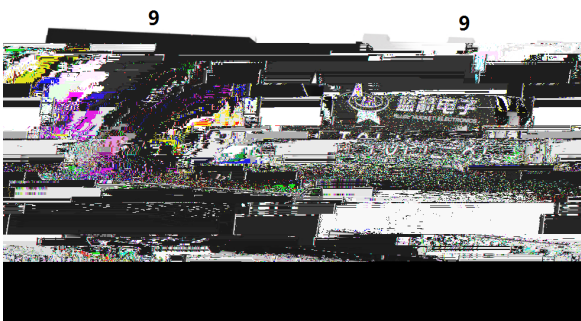
## Đ ÷ / Applications

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

• - ~ a øž  
 See Marking Instructions.

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**DATA SHEET**

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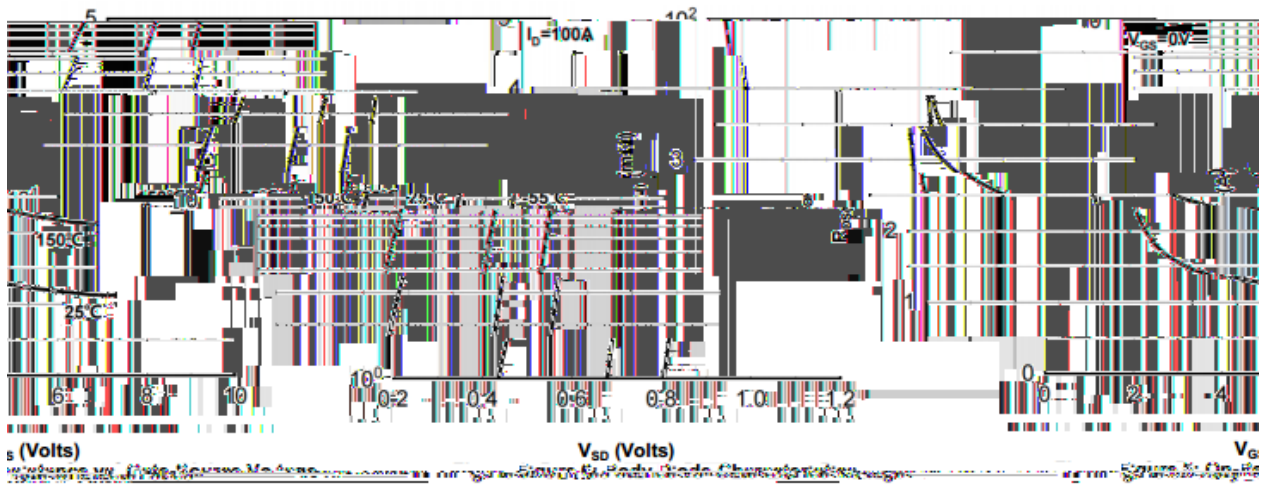
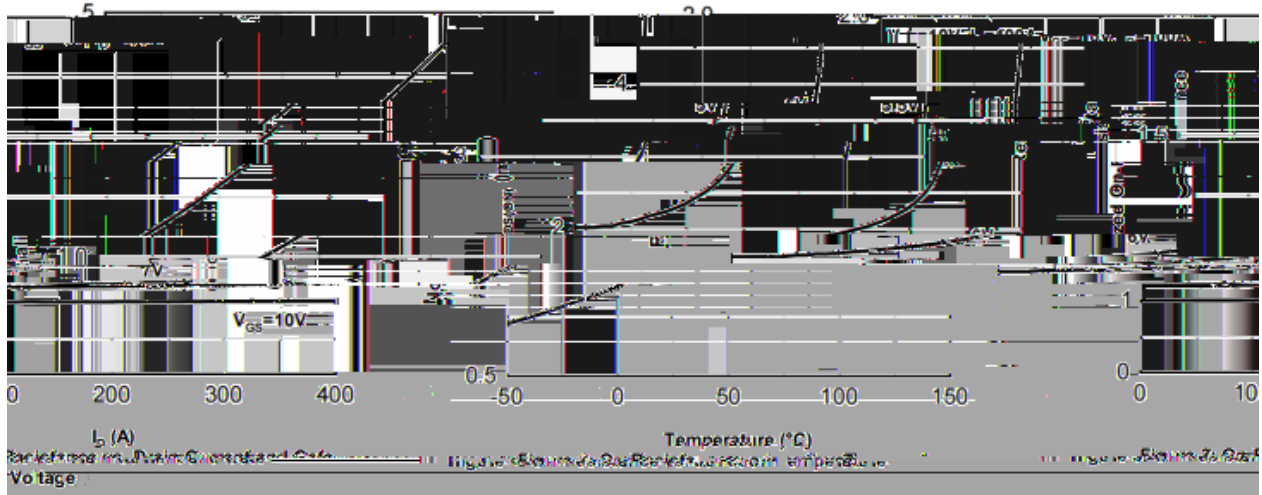
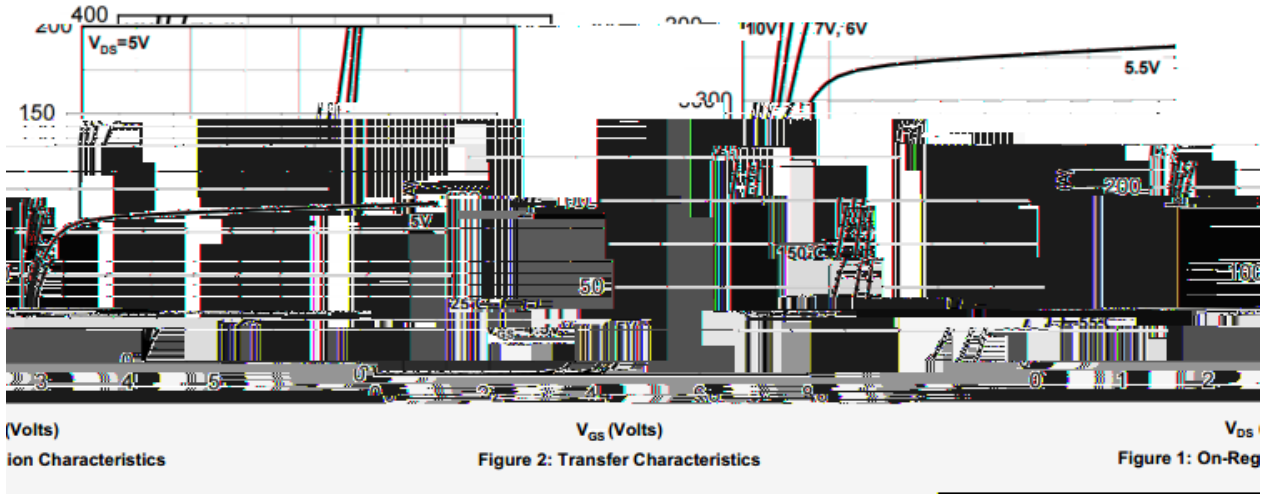


DATA SHEET

## 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 8: Capacitance Characteristics

Figure 7: Gate Charge Characteristics

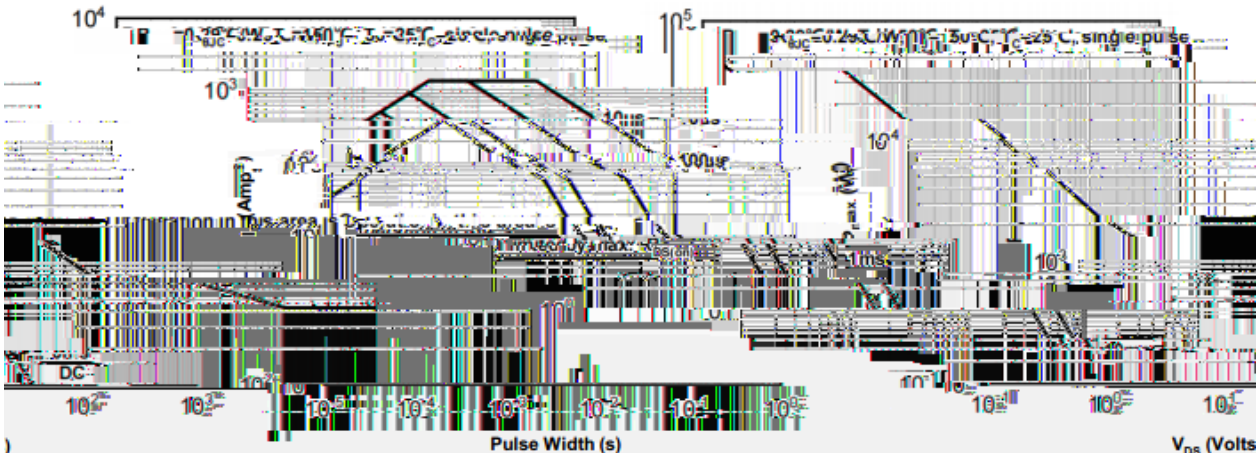
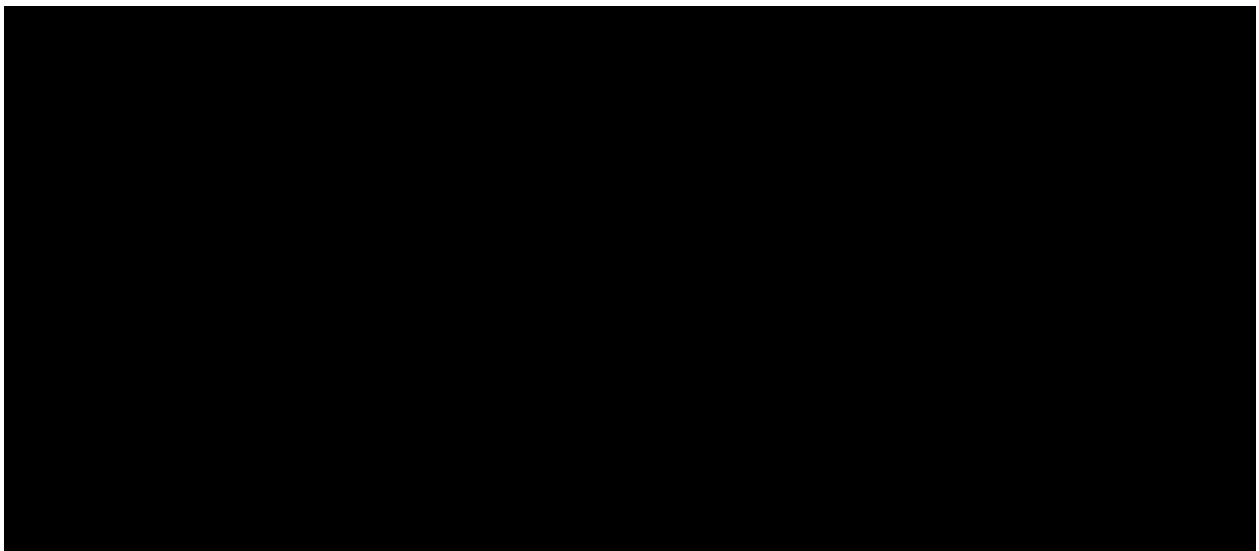
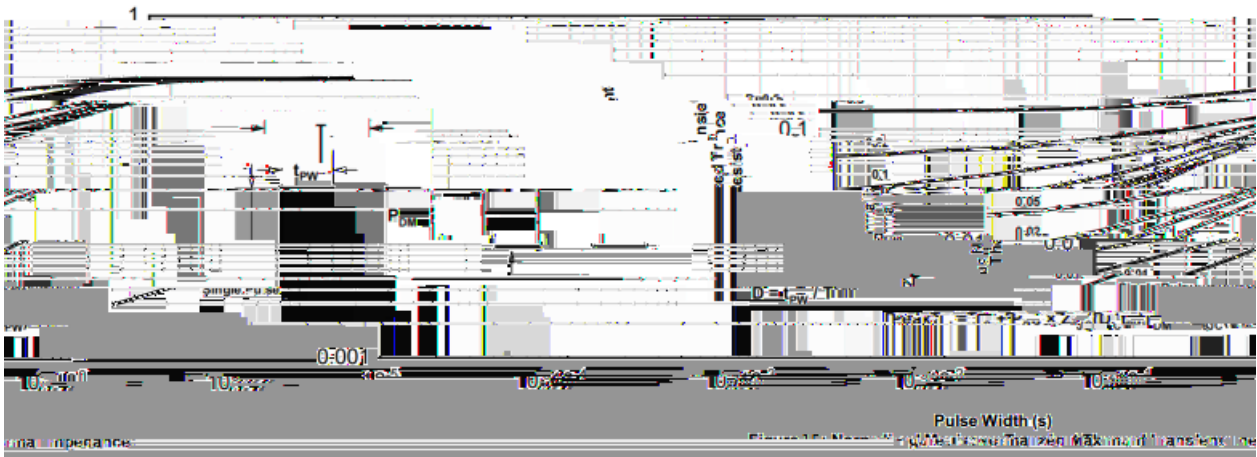
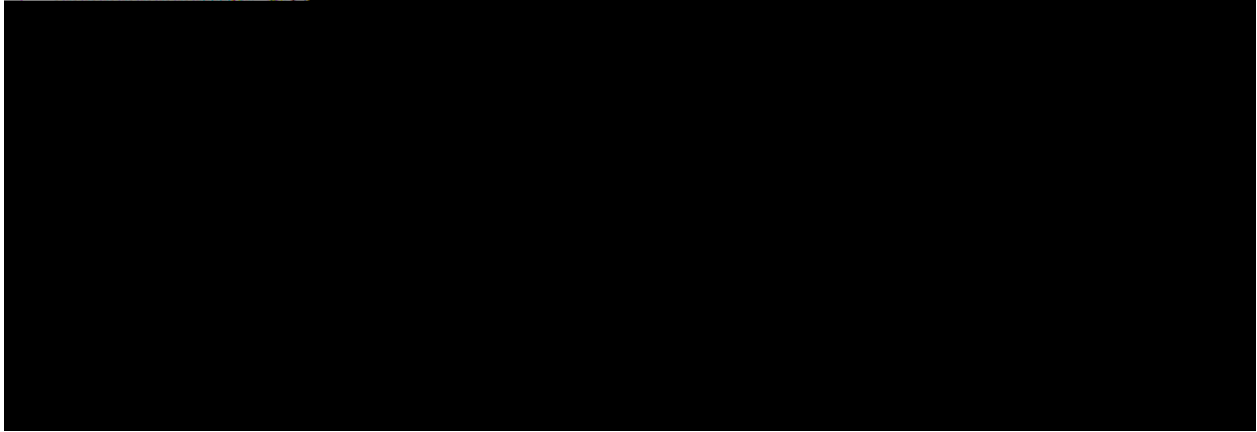


Figure 10: Single Pulse Power Rating Junction-to-Ambient

Figure 9: Maximum Forward Operating Area



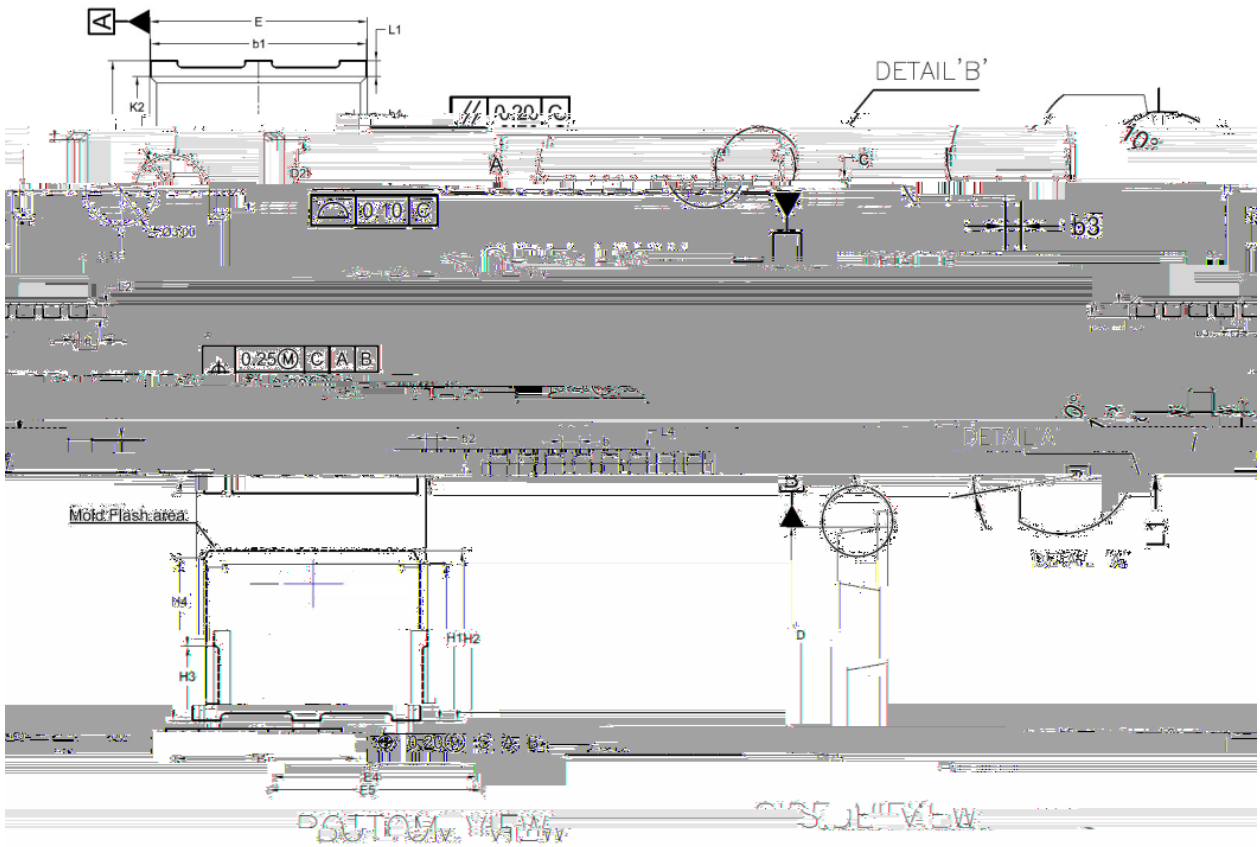
Ō ? d • Ž ϕ / Electrical Characteristic Curve



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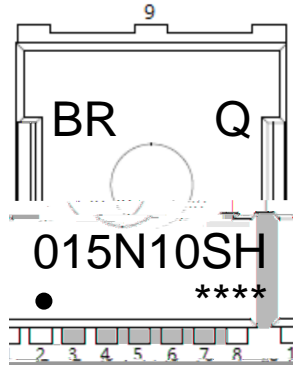
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∅ □ = ) ∅ / Package Dimensions



9_SHU	*OSKTYOUTY / T 3OR			9_SHU	*OSKTYOUTY / T 3OR			RORSKZKXY
	3/4	453	3'>		3/4	453	3'>	
'				H				
l				H				
*				H				
+				H				
K		(9)		H				
.				H				
.				2				
.				2				
.				2				
.				2				
1				2				
1				+				
*				+				
H				+				

**, M y f / Marking Instructions**



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 7 y                    V ñ —) í D } ö œ  
 015N10SH y    ° Z W A  
                   y                    ÿ D Z W A k š ÿ D Z J  
 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.

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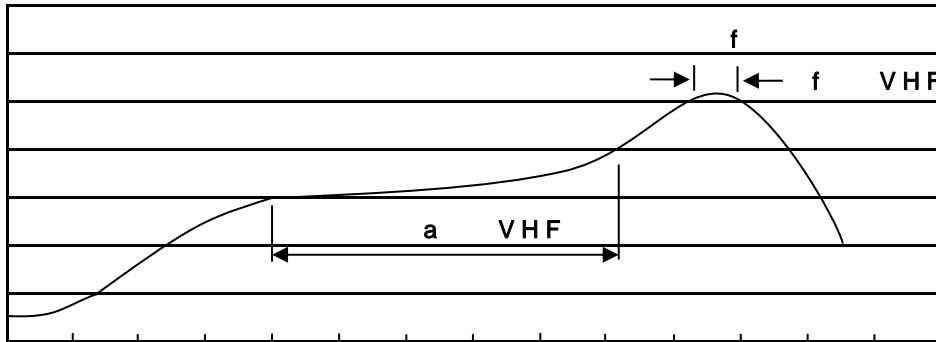
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DATA SHEET

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