

BRCS015N04SHXC

Rev.B Aug.-2025

DATA SHEET

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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Drain Current*	$I_D(T_c=25^\circ\text{C})$	177	A
	$I_D(T_c=100^\circ\text{C})$	125	A

Drain

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q_g	$V_{GS}=10V,$ $V_{DS}=20V,$ $I_D=30A$		43		nC
Gate Source Charge	Q_{gs}			13		
Gate Drain Charge	Q_{gd}			11		
Turn-On Delay Time	$t_{d(on)}$	$V_{GEN}=10V,$ $V_{DS}=20V,$ $R_L=0.66 \Omega,$ $R_G=3.9 \Omega,$ $I_{DS}=30A$		12		ns
Turn-On Rise Time	t_r			60		
Turn-Off Delay Time	$t_{d(off)}$			29		
Turn-Off Fall Time	t_f			24		

BRCS015N04SHXC

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/ Electrical Characteristic Curve

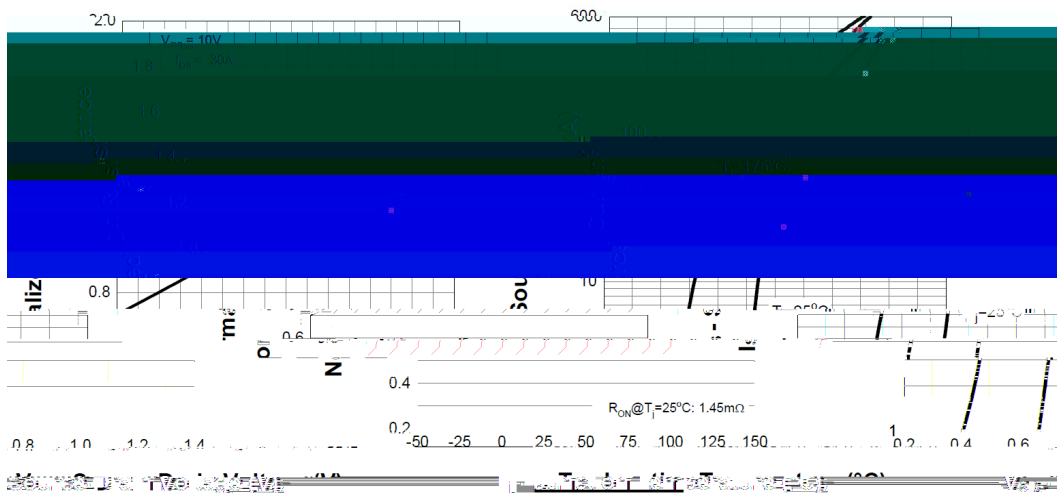
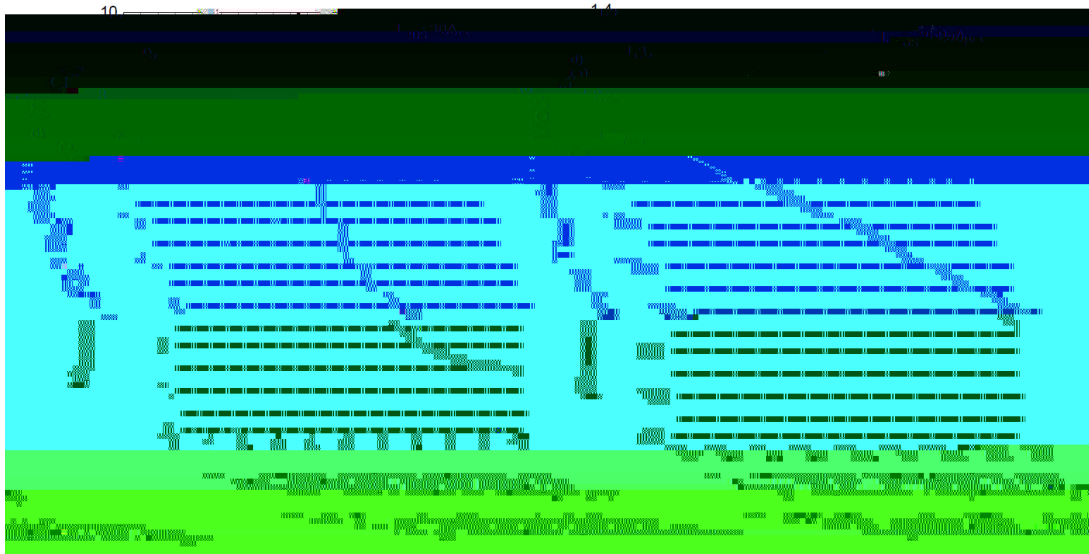


Fig. 9. Normalized On-Resistance

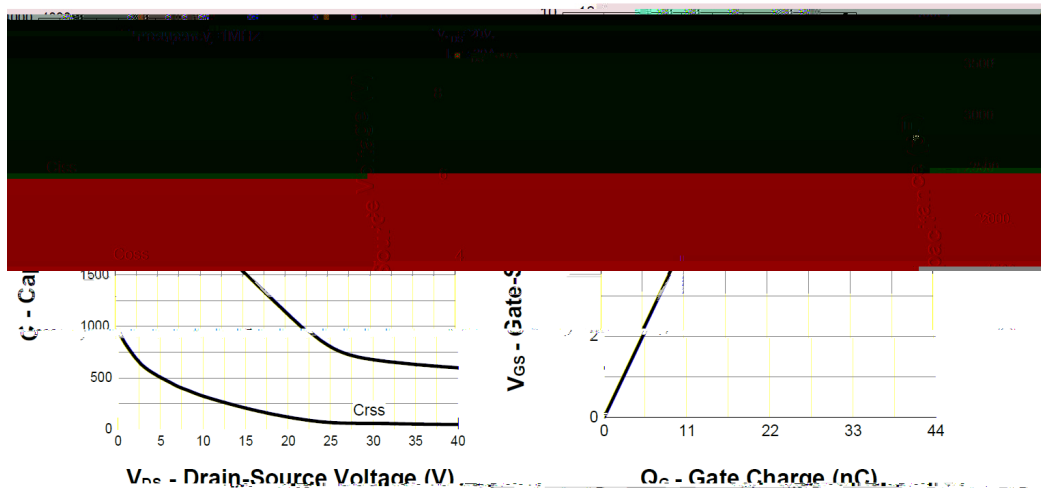
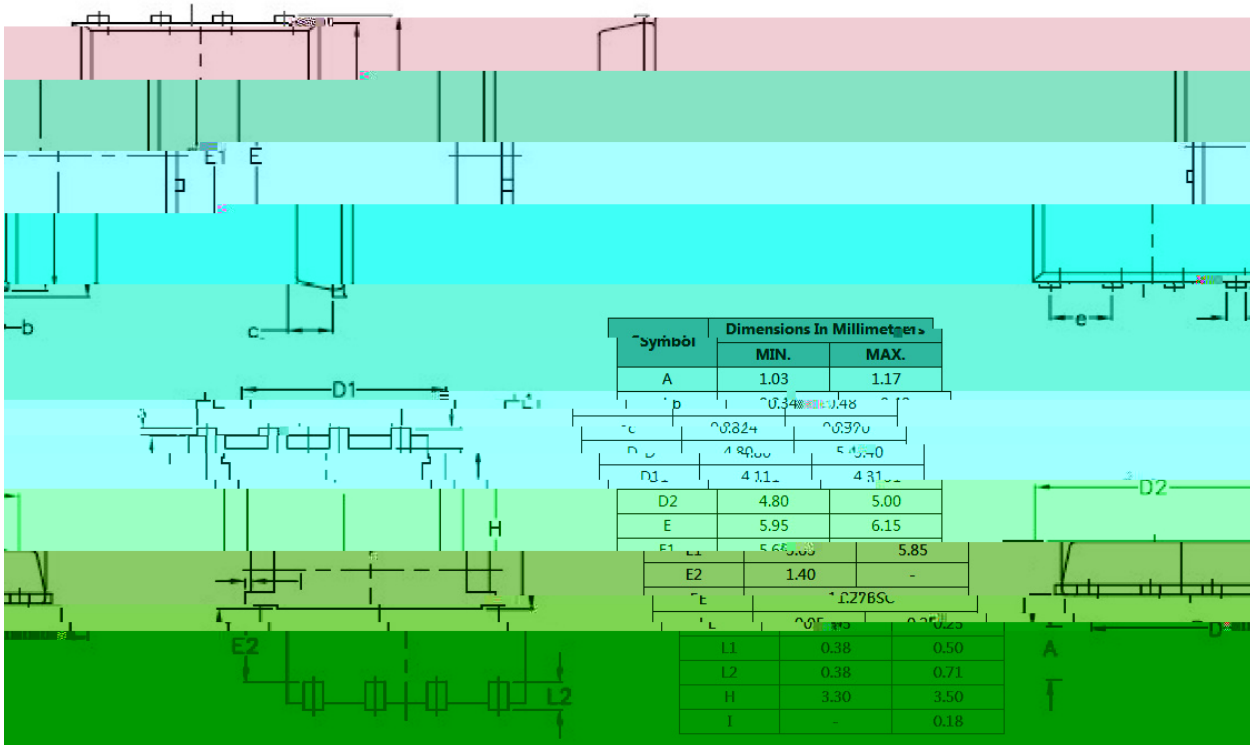


Fig. 11. Capacitance vs. Drain-Source Voltage Fig. 12. Gate Charge vs. Drain-Source Voltage

/ Package Dimensions



/ Marking Instructions



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015N04SH

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Note

BR Company Code

015N04SH Product Type Code

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

1 150 180 60