

BRCS015N04SHXC

Rev.B Aug.-2025

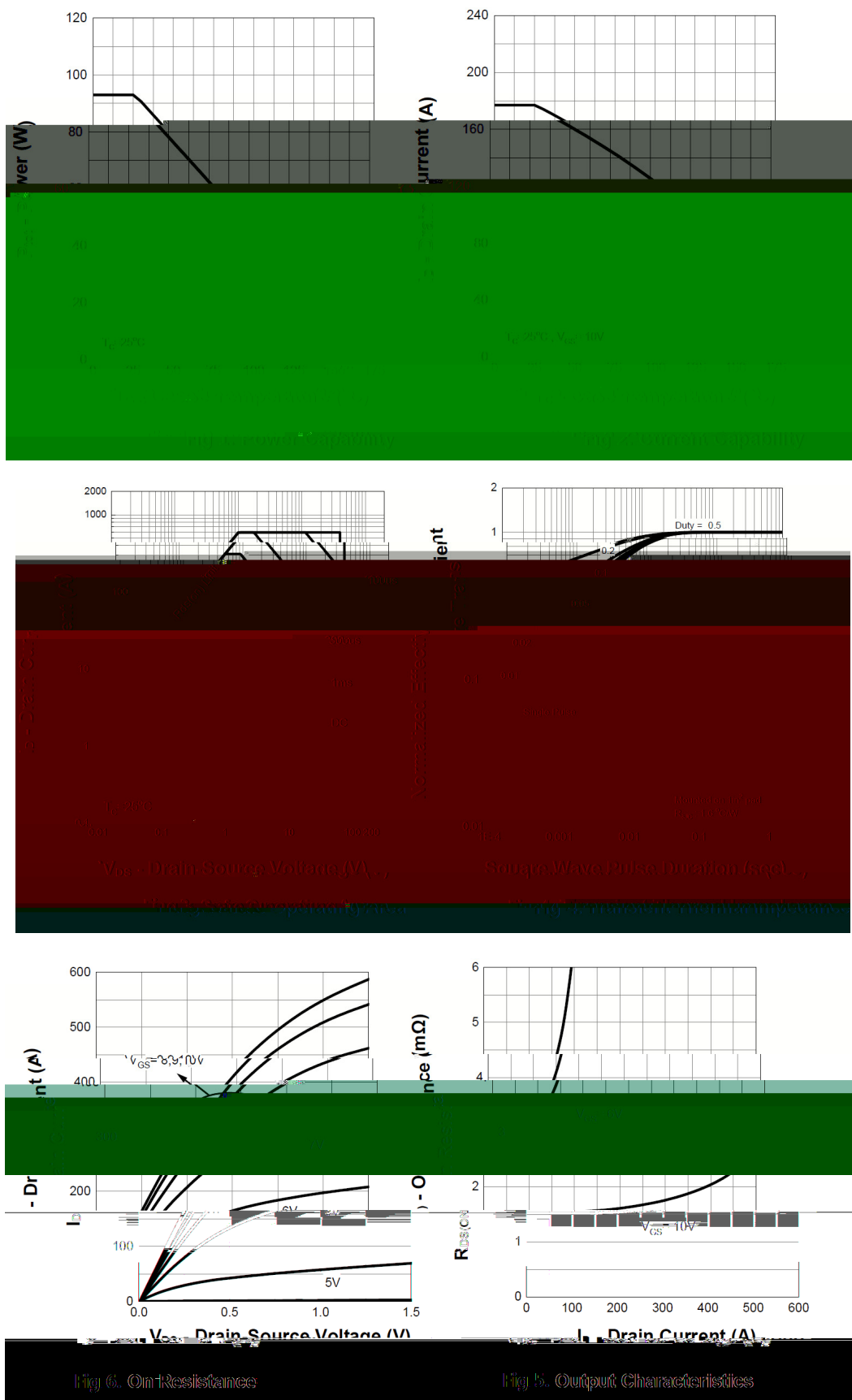


Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Drain Current*	$I_D(T_c=25^{\circ}\text{C})$	177	A
	$I_D(T_c=100^{\circ}\text{C})$	125	A

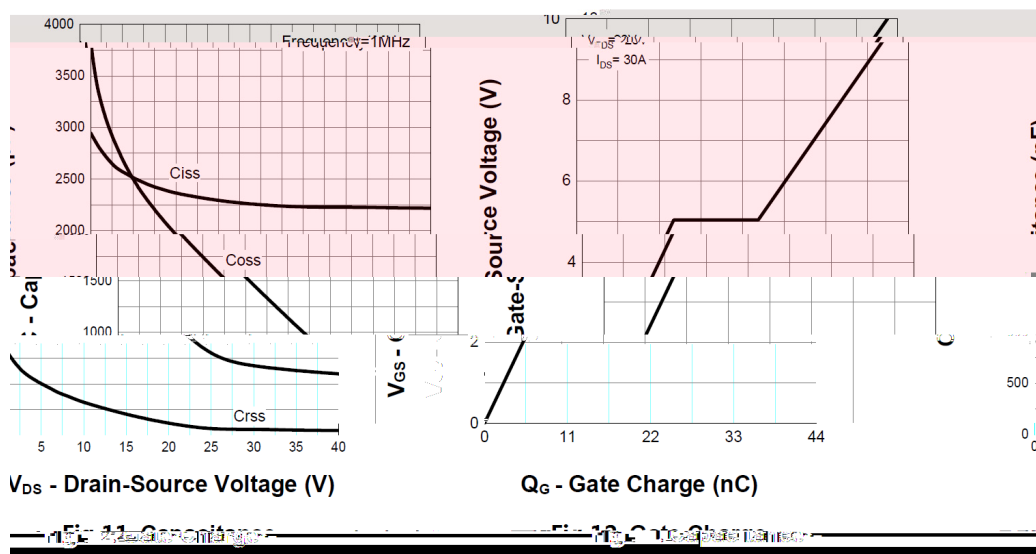
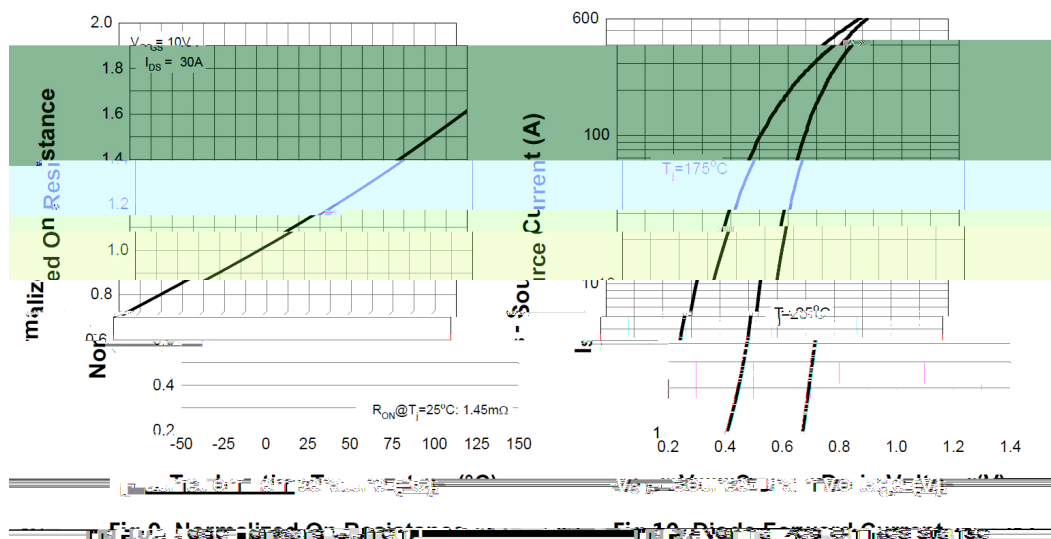
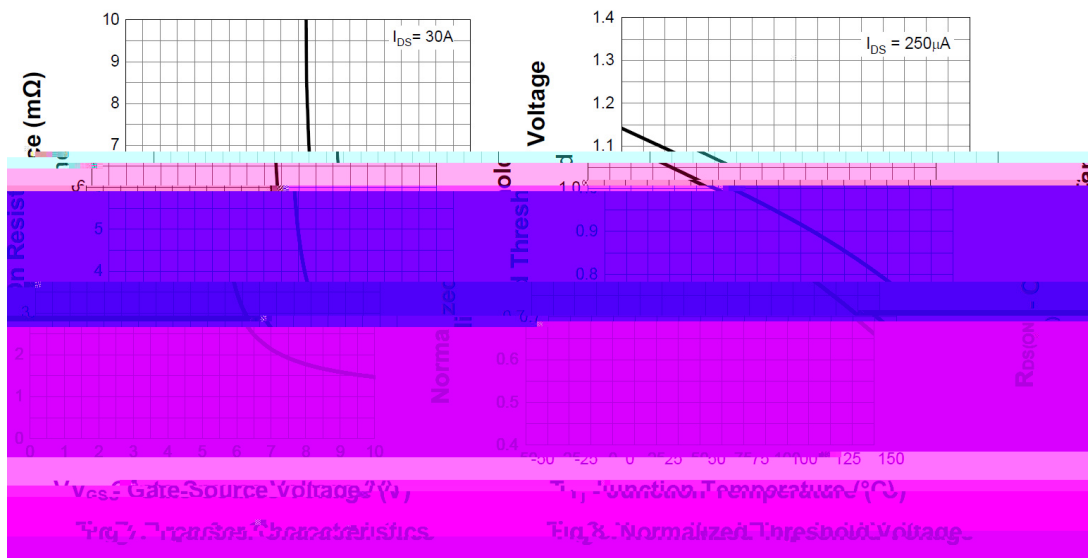
/ Electrical Characteristics(Ta=25)

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		

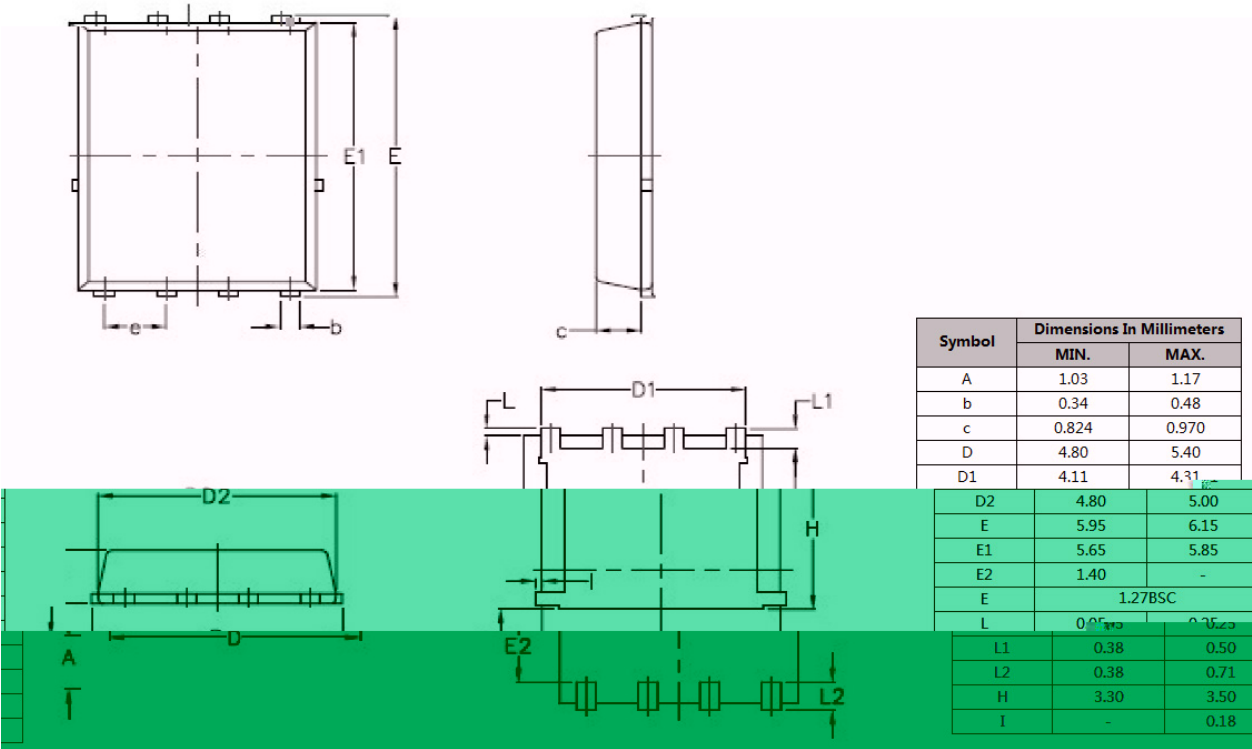
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



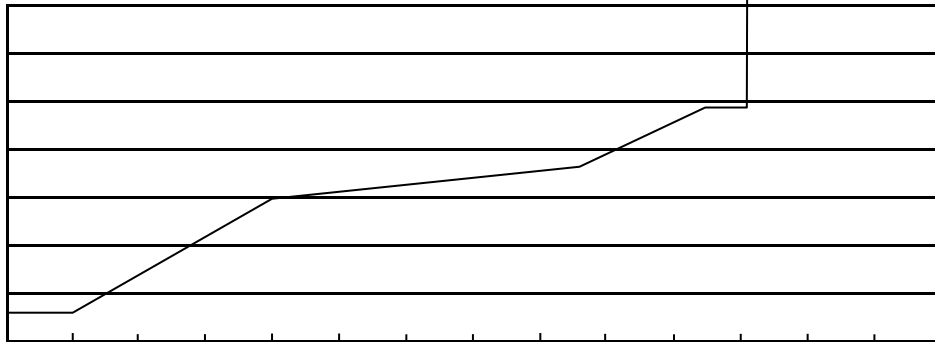
EU

015N04SH

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 ~ 90sec; | 1.Preheating:150~180℃, Time:60~90sec. |
| 2 | 245 ± 5℃ | 5 ± 0.5sec; | 2.Peak Temp.:245 ± 5℃, Duration:5 ± 0.5sec. |
| 3 | 2 ~ 10℃/sec. | | 3. Cooling Speed: 2~10℃/sec. |

/ Resistance to Soldering Heat Test Conditions

260 ± 5℃ 10 ± 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 2	Reels/Inner Box 2	Units/Inner Box 2	Inner Boxes/Outer Box 2	Units/Outer Box 2	Reel	Inner Box	Outer Box
PDFN5×6-Clip	5000	2	10000	6	60000	13"×12	360×360×50	380×335×366

/ Notices

All information provided in this document is subject to legal disclaimers.