BRCS020N10SHTL

DATA SHEET

/ Descriptions

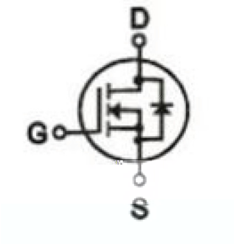
N-Channel MOSFET in a TOLL-8L Plastic Package .

/ Features

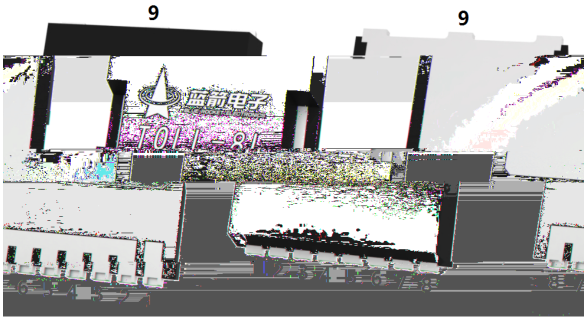
≤ Ω Ω

/ Applications

/ Equivalent Circuit



/ Pinning



/ Marking

/ Absolute Maximum Ratings(T_C=25)

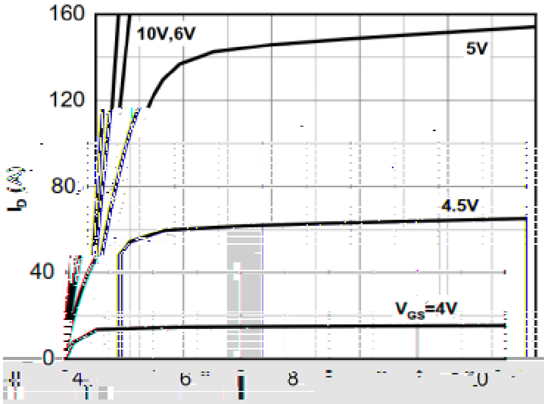
		θ		/ W
		θ		

/ Electrical Characteristics(Ta=25)

						Ω
						Ω

/ Electrical Characteristics(Ta=25)

/ Electrical Characteristic Curve



Transfer Characteristics

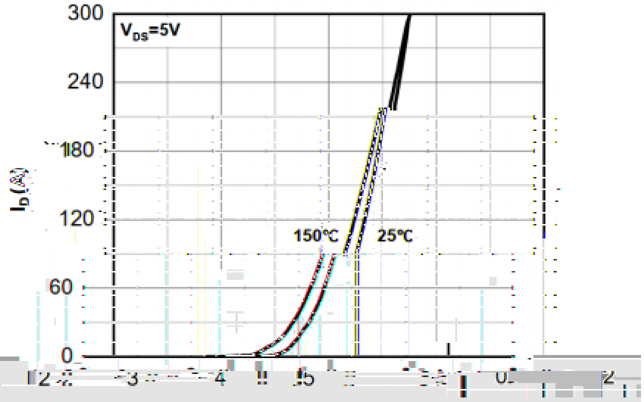


Figure 1: On-Region Characteristics

Figure 2:

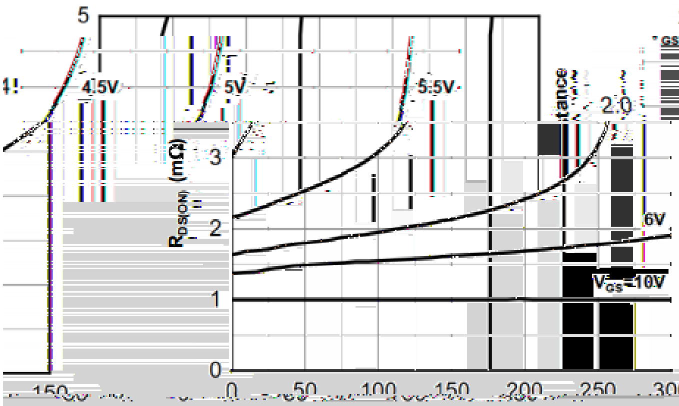


Figure 4: On-Resistance vs. Junction Temperature

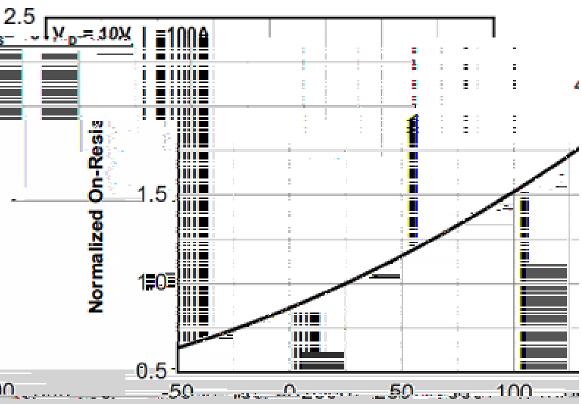


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

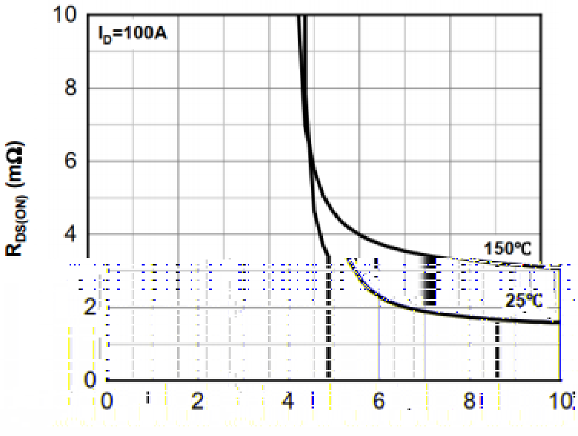


Figure 5: On-Resistance vs. Gate-Source Voltage

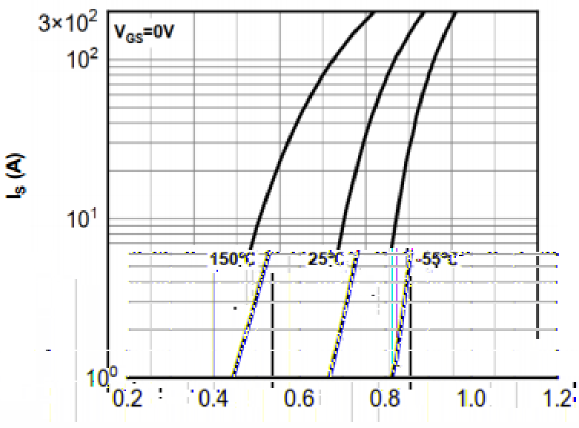
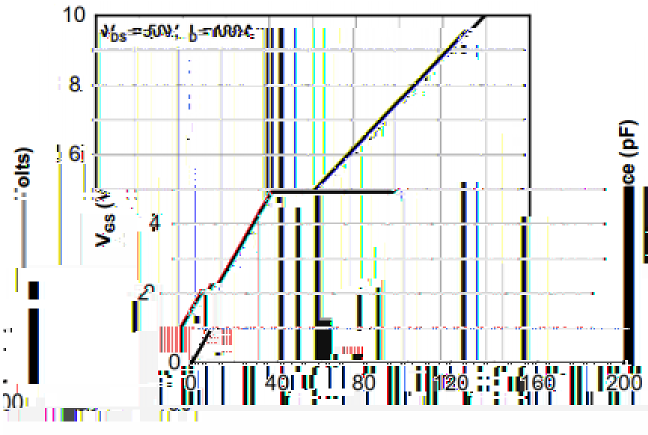


Figure 6: Body-Diode Characteristics

/ Electrical Characteristic Curve



Characteristics

Figure 7: Gate-Charge Characteristics

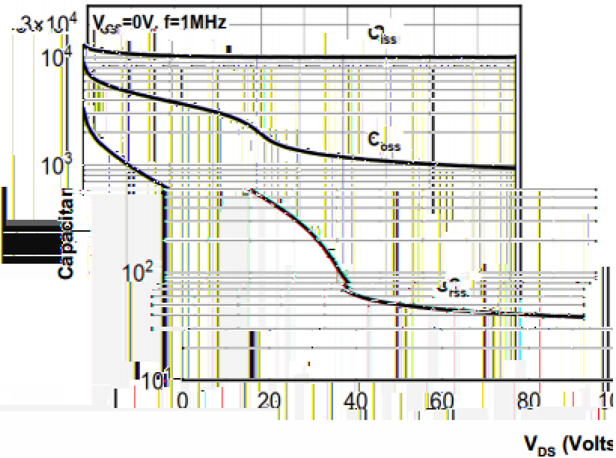


Figure 8: Capacitance C

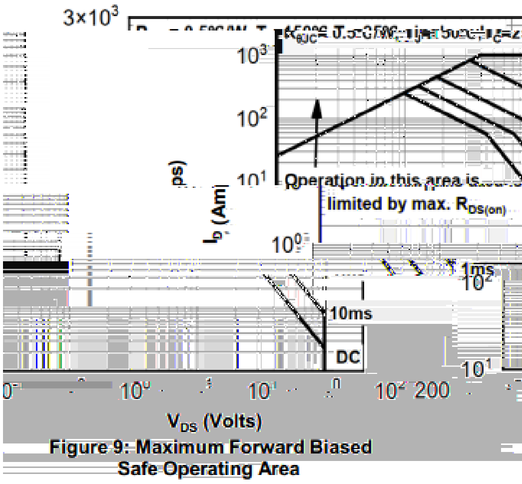


Figure 9: Maximum Forward Biased Safe Operating Area

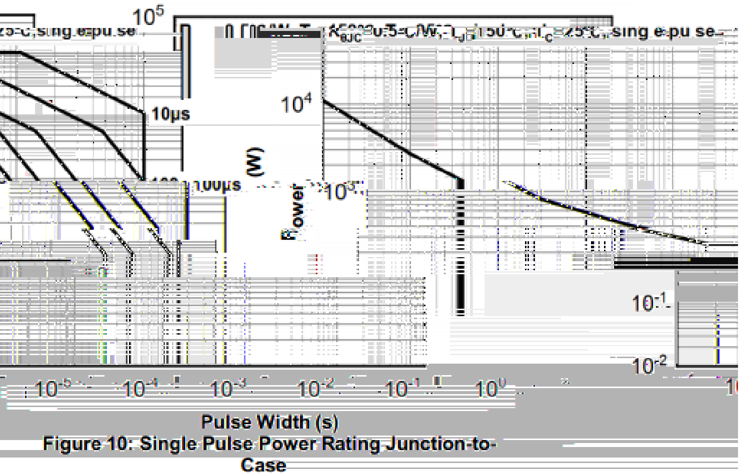
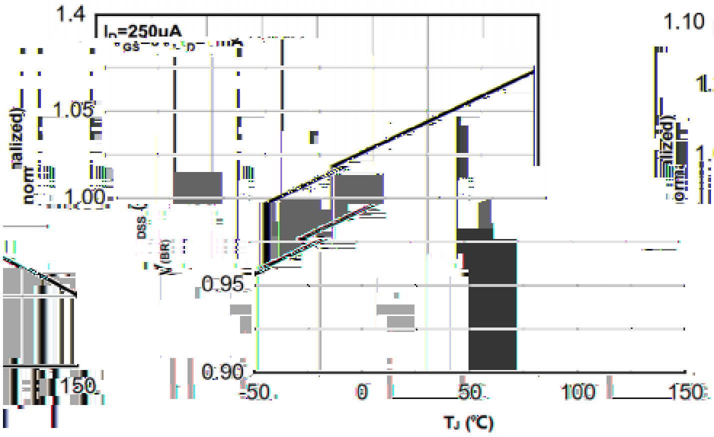


Figure 10: Single Pulse Power Rating Junction-to-Case



nction

Figure 12: Normalized V(BR)DSS vs. Junction Temperature

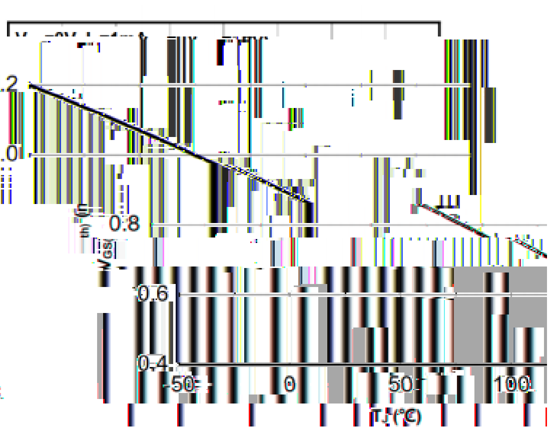
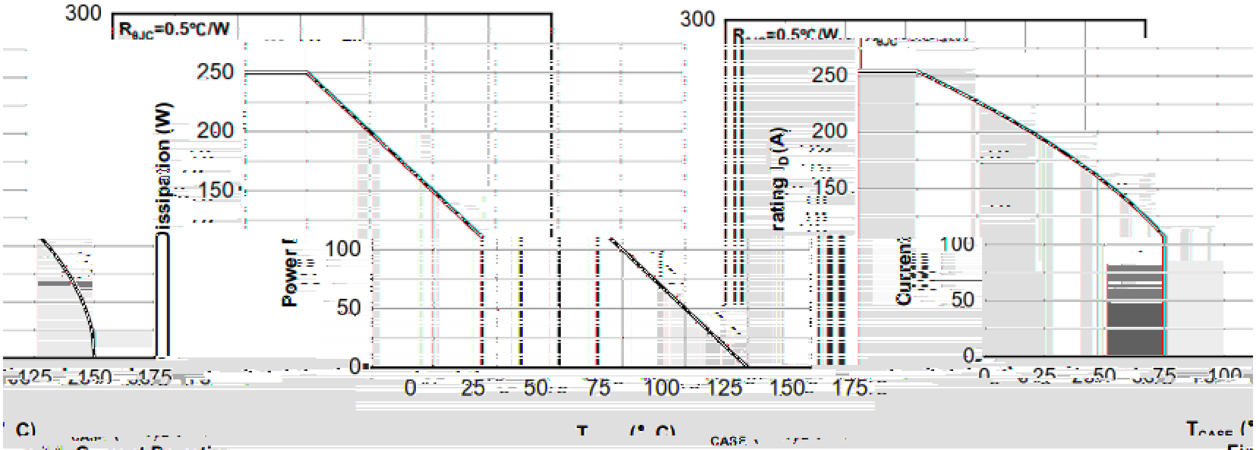


Figure 11: Normalized VGS(th) vs. Ju Temperature

/ Electrical Characteristic Curve



ure 14: Current De-rating

Figure 13: Power De-rating

Fig

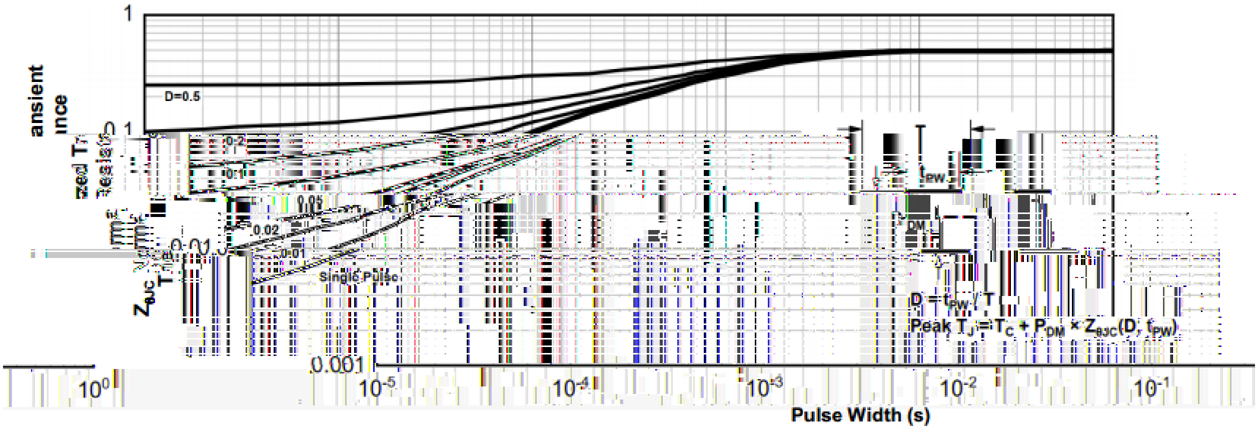
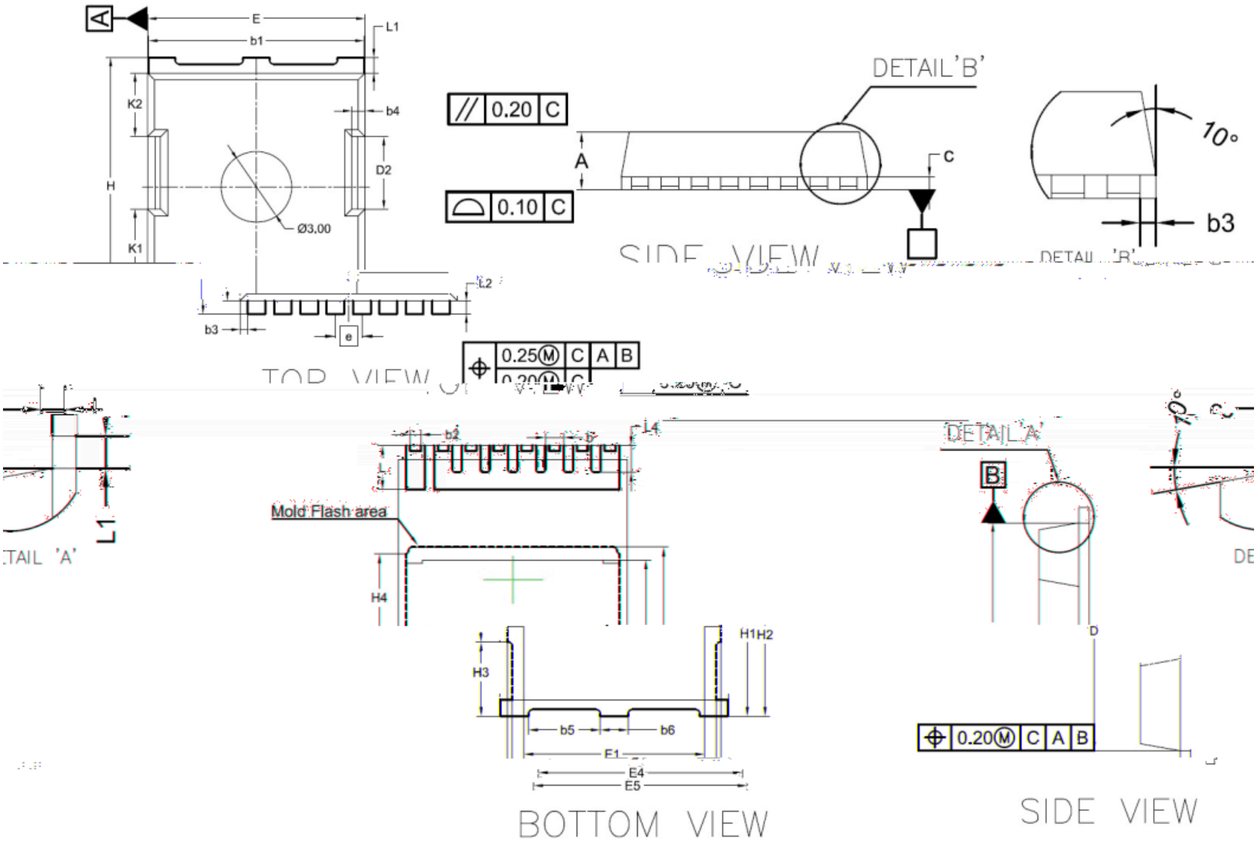


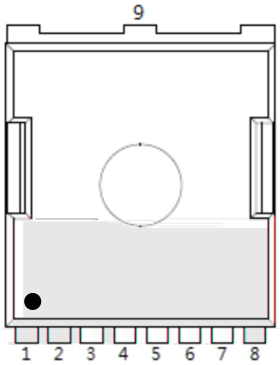
Figure 15: Normalized Maximum Transient Thermal Impedance

/ Package Dimensions



Symbol	Dimensions In Millimeters			Symbol	Dimensions In Millimeters		
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.
A	2.200	2.300	2.400	b1	9.700	9.800	9.900
c	0.492	0.500	0.508	b1	0.420	0.460	0.500
D	10.280	10.380	10.480	b3	0.350		
E	9.800	9.900	10.000	b4	0.600		
e	1.20 BSC			b5	3.100		
H	11.580	11.680	11.780	b6	1.200		
H1	6.650	6.750	6.850	L	1.700	1.900	2.100
H2	7.300			L1	0.700		
H3	3.200			L2	0.600		
H4	3.800			L4	1.050	1.150	1.250
K1	4.180			L5	0.500	0.600	0.700
K2	2.900			E1	7.800		
D2	3.300			E4	8.800		
b	0.700	0.800	0.900	E5	9.200		

/ Marking Instructions



BR

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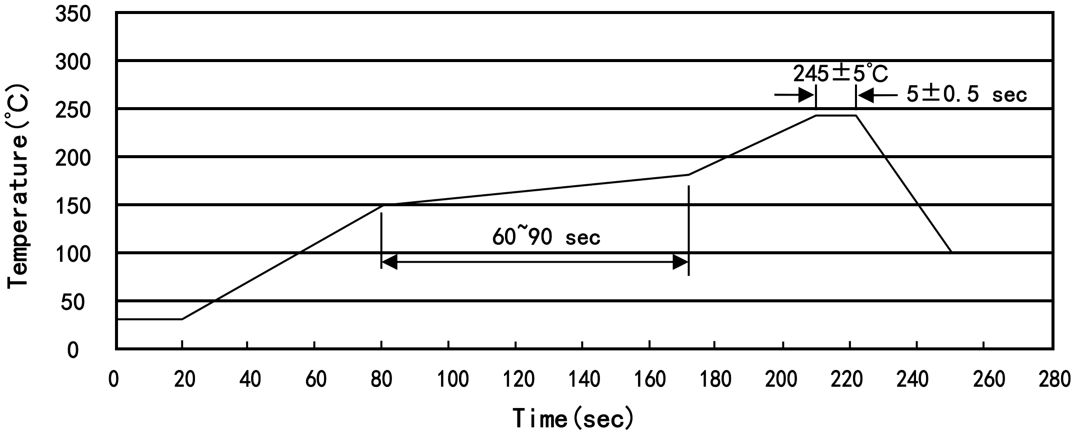
( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



± ± ± ±

/ Resistance to Soldering Heat Test Conditions

± ±

/ Packaging SPEC.

	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box

/ Notices