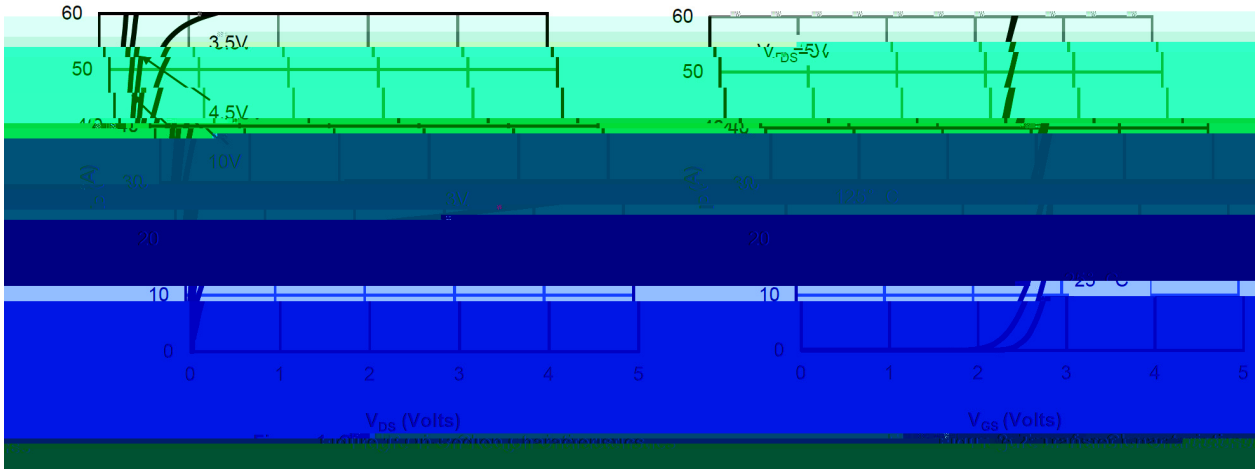
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	30	V
Drain Current	I_D(Tc=25)	122	A
Peak Drain Current	I_{DM}	260	A
Gate-Source Voltage	V_{GSS}	20	V
Avalanche Current	I_{AS}	26.5	A
Single Pulsed Avalanche Energy	E_{AS}	653	mJ
Total Power Dissipation	P_D(Tc=25)	88	W
Junction and Storage Temperature Range	T_J,T_{STG}	-55 to 150	
Thermal resistance, junction - ambient	$R_{\theta JA}$	50	/W
Thermal resistance, junction - case	$R_{\theta JC}$	1.42	

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Zero Gate Voltage Drain Current	BV_{DSS}	V_{GS}=0V	I_D=250μA	30	33		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=30V	V_{GS}=0V			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V	V_{DS}=0V			±0.1	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS}	I_D=250μA	1.0	1.5	3.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=10V	I_D=20A		3.2	3.5	mΩ
		V_{GS}=4.5V	I_D=10A		5.1	6.5	mΩ
Diode Forward Voltage	V_{SD}	I_S=20A	V_{GS}=0V			1.2	V
Reverse Recovery Time	t_{rr}	I_D = 20 A	V_{DS}=15V				

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(10V)}$	V_{GS}=10V, V_{DS}=15V, I_D=20A		43.6		nC
Total Gate Charge	$Q_{g(4.5V)}$			19.9		
Gate Source Charge	Q_{gs}			4.4		
Gate Drain Charge	Q_{gd}			9.4		
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=15V R_L=0.75				



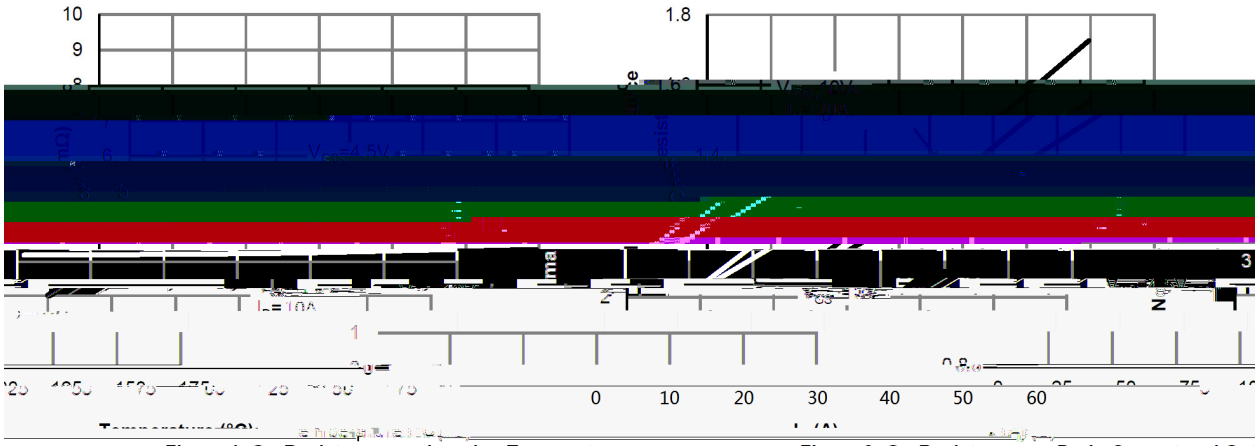
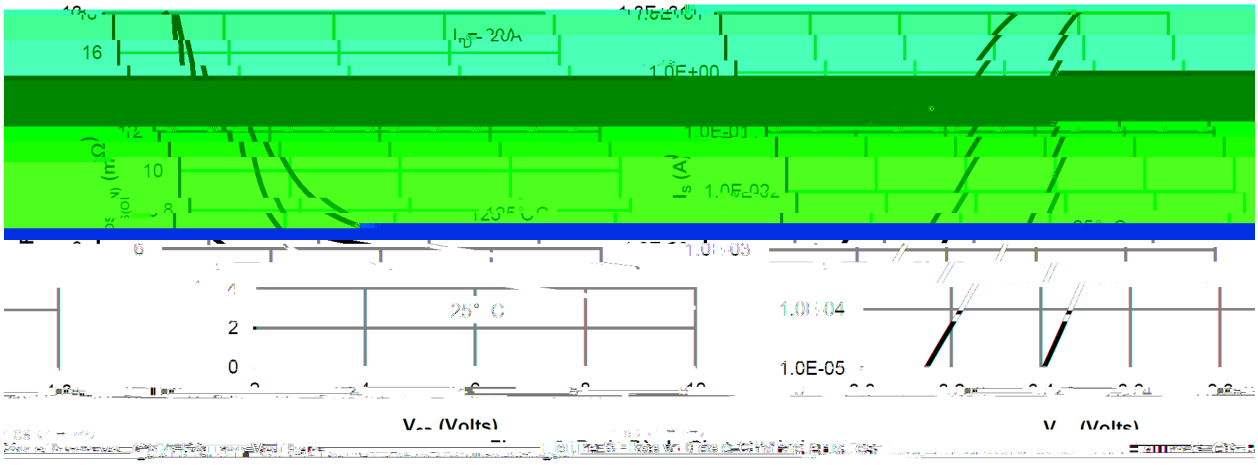
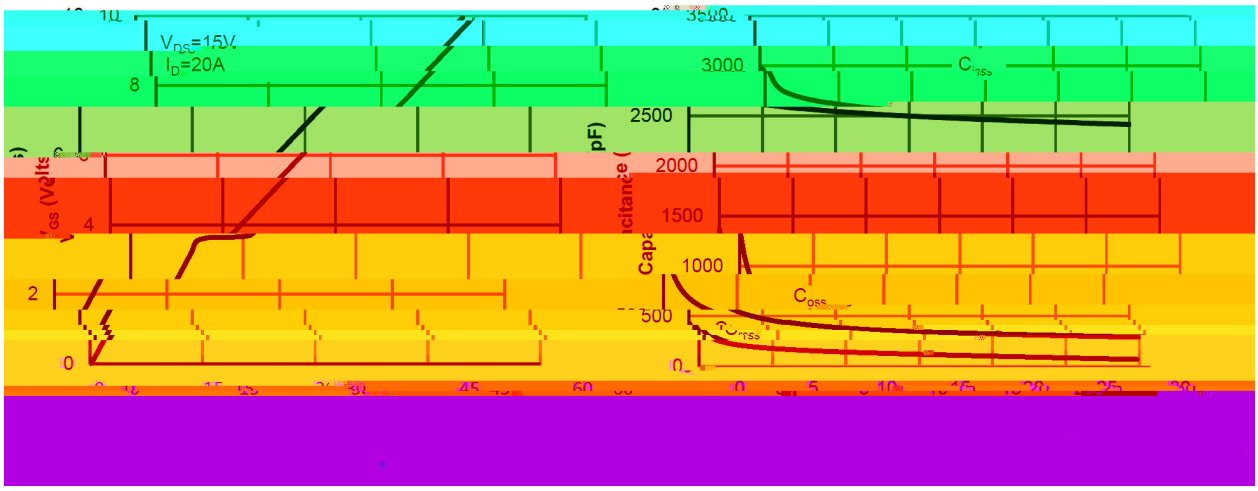


Figure 4: On-Resistance vs. Junction Temperature

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





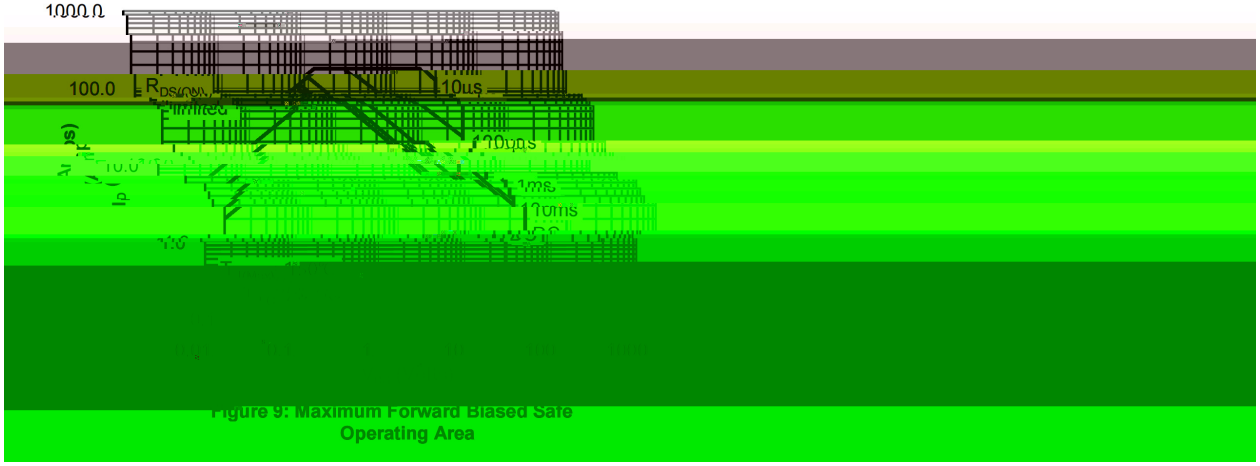
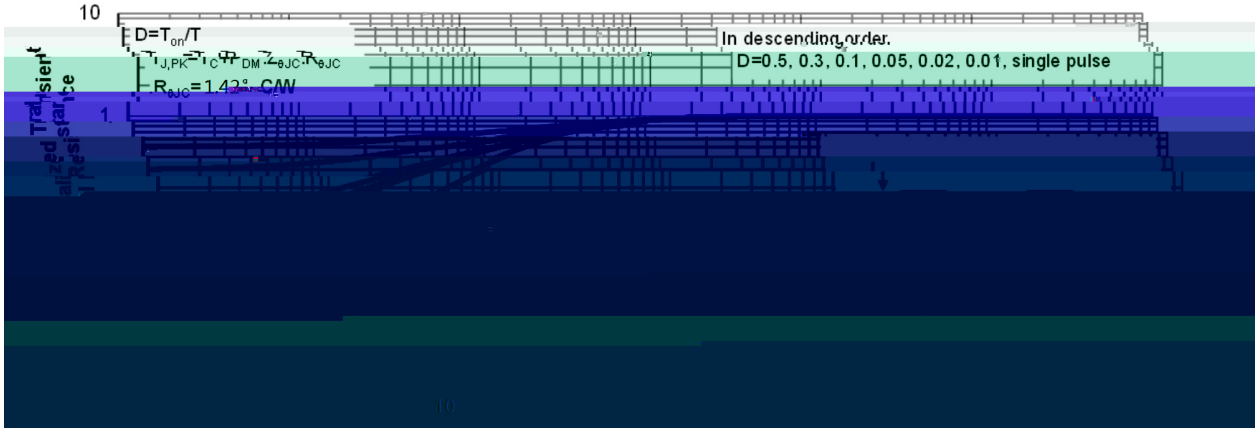
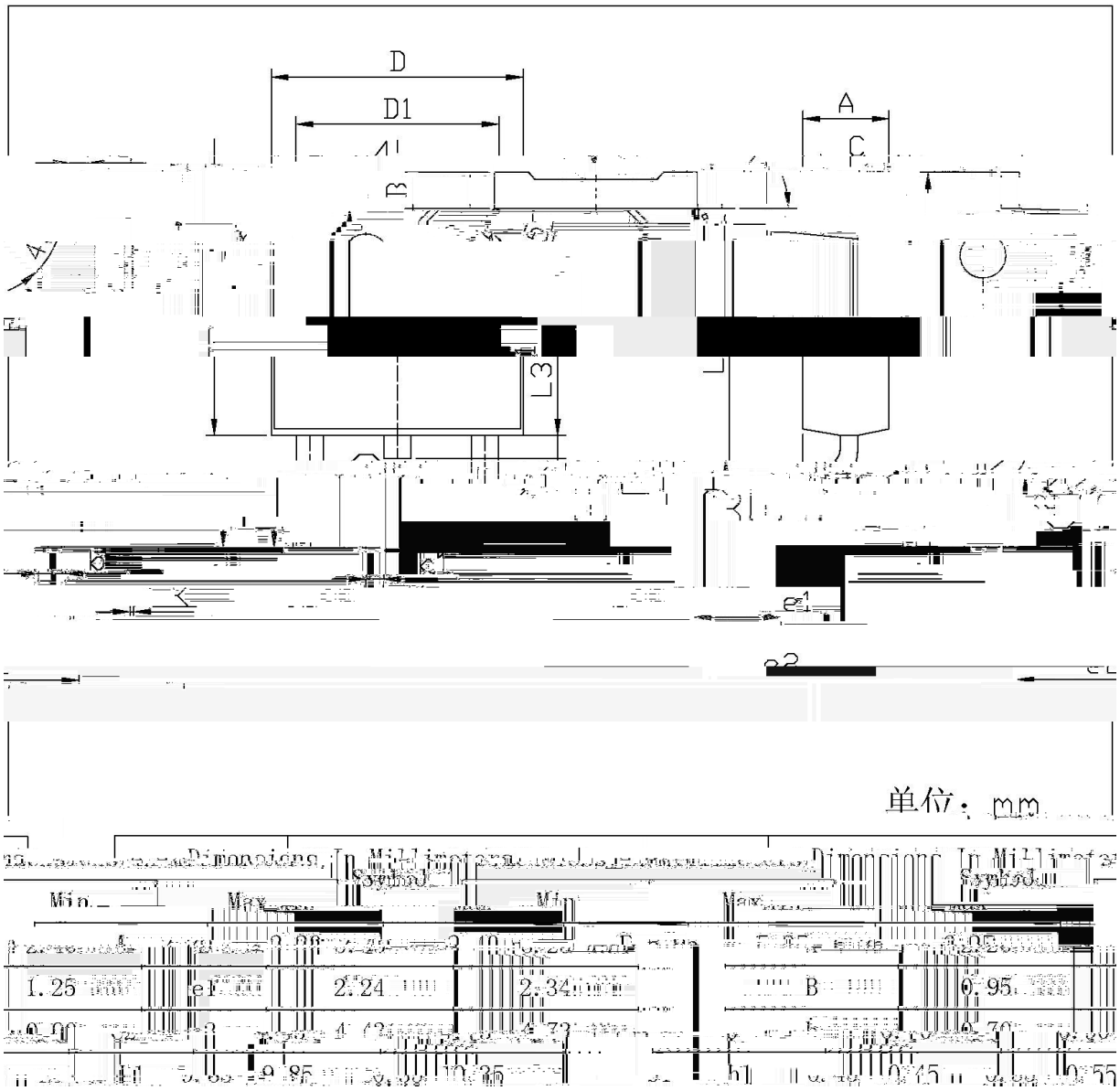
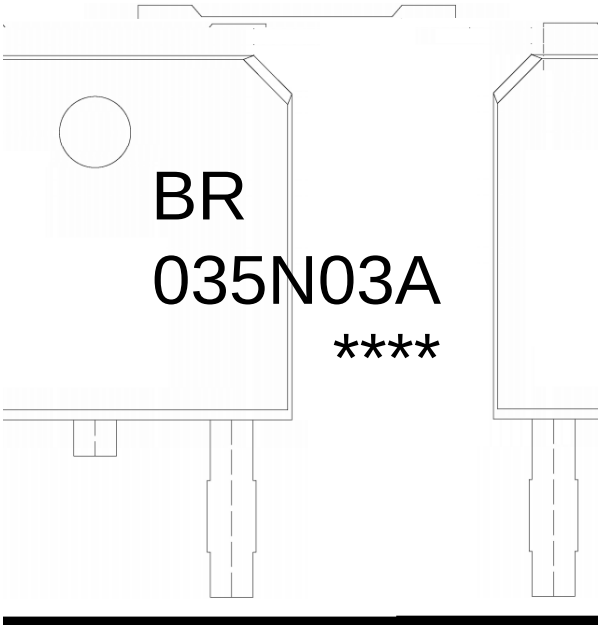


Figure 9: Maximum Forward Biased Safe Operating Area





Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min.	Max.		Min.	Max.
A	0.98	1.20	D	3.05	3.25
e1	2.24	2.34	B	0.95	
L	0.90				



BR

035N03A

****

Note:

BR:	Company Code
035N03A:	Product Type Code
****:	Lot No. Code, code change with Lot No.

Temperature Profile for IR Reflow Soldering(Pb-Free)



1	150	180		60	90sec;
2	245±5				5±0.5sec;
3			2	10	/sec.

Note:

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

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

/ REEL

Package Type	Units					Dimension		(unit mm³)
TO-252	2,500	2	5,000	6	30,000	13	×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension		(unit mm³)