

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	$I_D(T_c=25^\circ\text{C})$	-45	A
Drain Current – Pulsed	I_{DM}	-126	A
Gate-Source Voltage	V_{GS}	20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	30	W
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	360	mJ
Avalanche Current(L=0.5mH)	I_{AS}	-30	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=0.75$ $R_{GEN}=3$		12.5		ns
Turn-On Rise Time	t_r			19		
Turn-Off Delay Time	$t_{d(off)}$			125		
Turn-Off Fall Time	t_f			67		

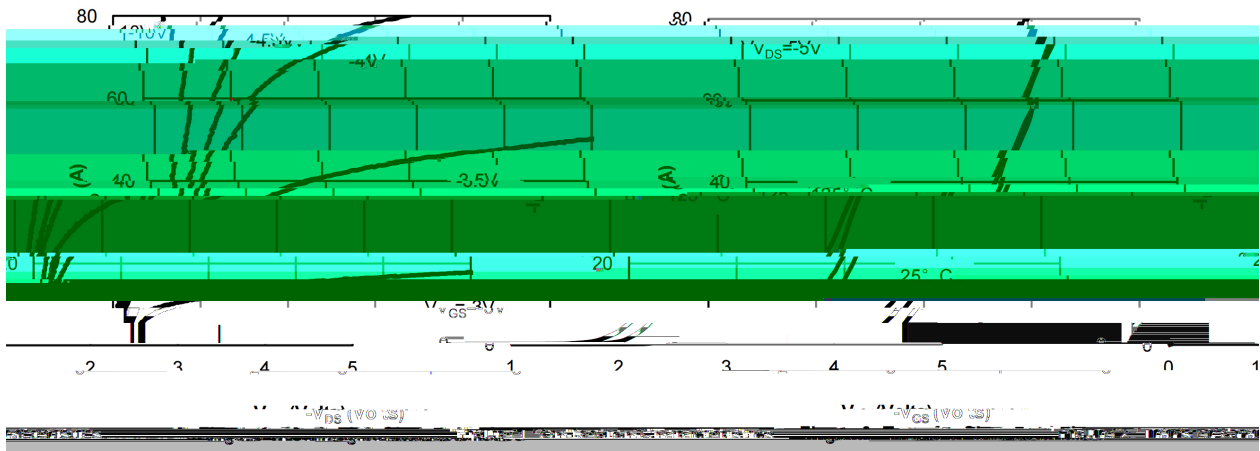
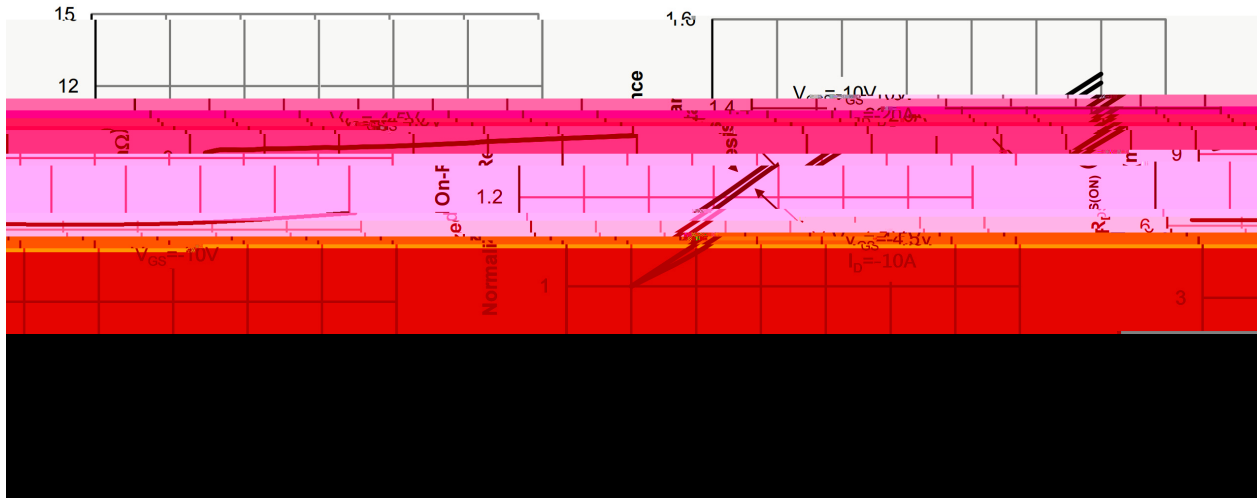
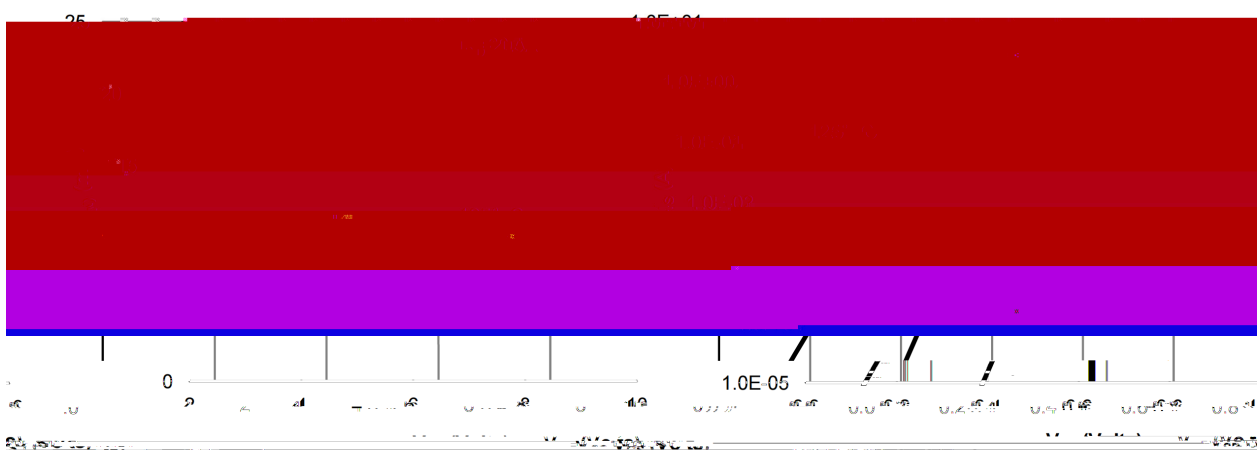
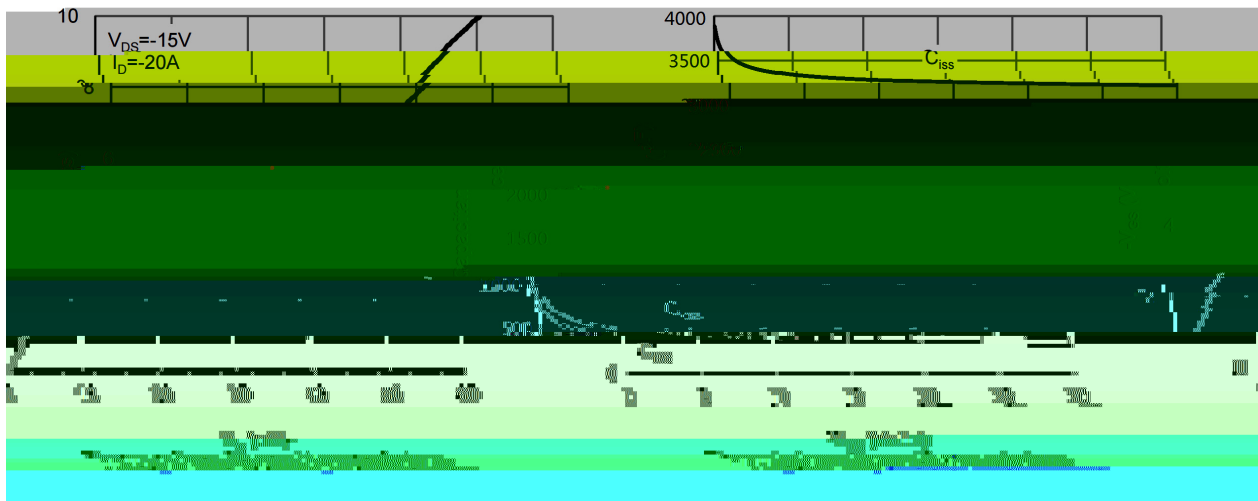
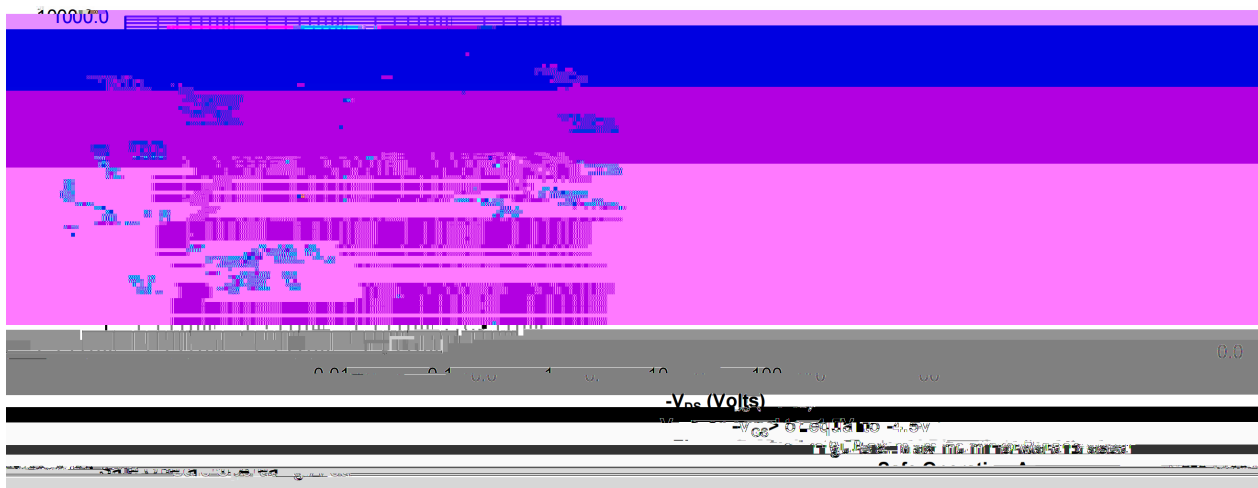
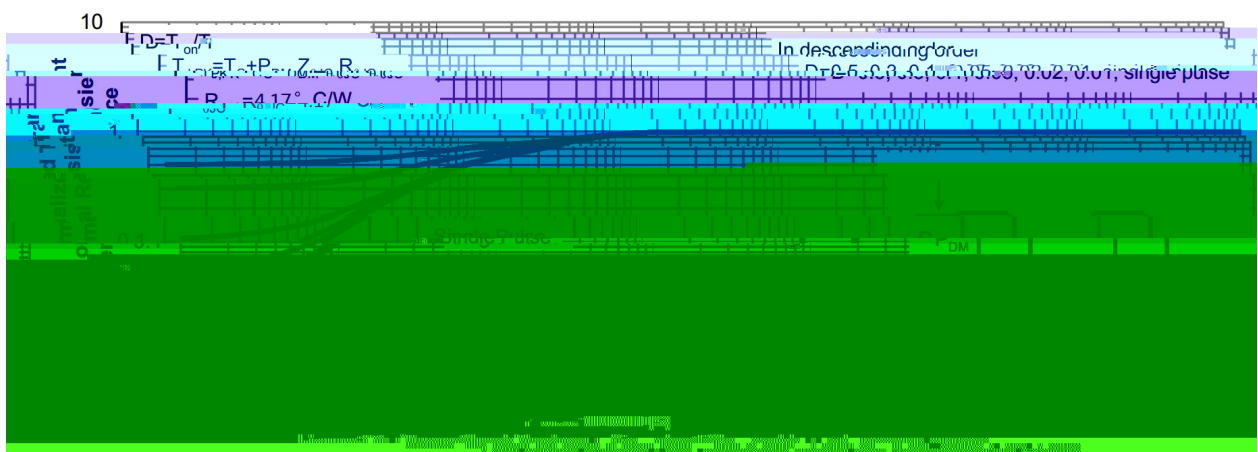


Figure 6: Body-Diode Characteristics

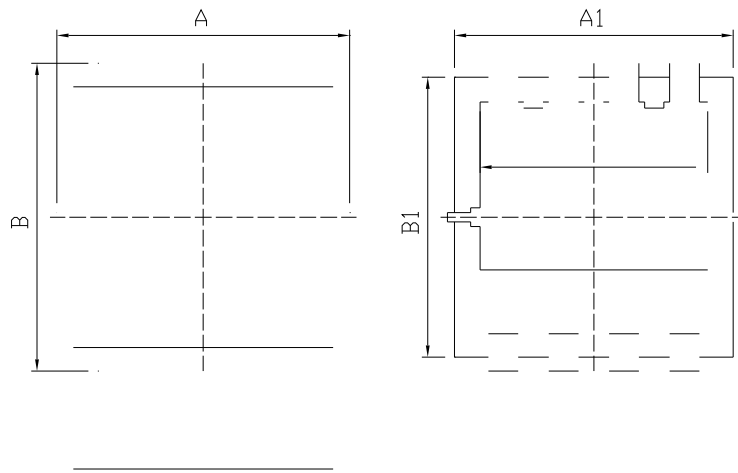
Figure 5: On-Resistance vs. Gate-Source Voltage

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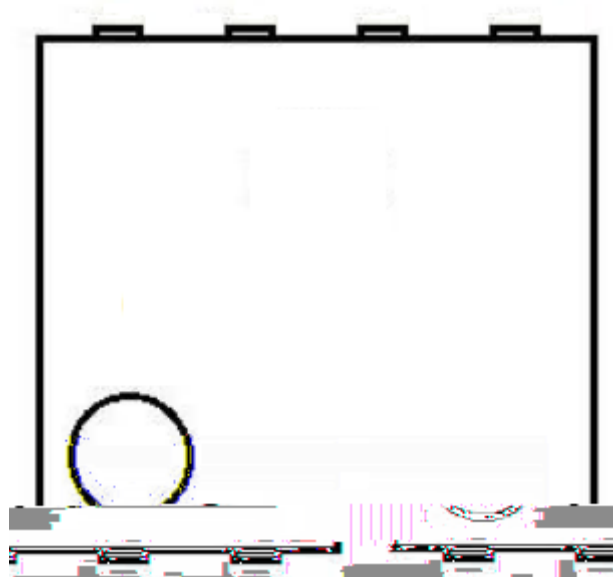
PDFN3X3A-8L

Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	3.20	3.30	3.40
A1	3.10	3.15	3.20
B	3.20	3.30	3.40
B1	2.95	3.00	3.05
C	0.75	0.80	0.85
L	0.25	0.30	0.35
L1	-	-	0.75
L2	0.55	0.65	0.75
L4	0.14	0.15	0.20
a	2.35	2.45	2.55
b	1.635	1.735	1.835

Rev.00 202011



BR

Q

070P03

Note:

BR: Company Code

Q: Automobile halogen-free product Code

How Soldering(Pb-Free)

150~200℃ , Time:60~120sec.
 255℃±5℃ , Duration:5~0.5sec.
 Speed: 2~10℃/sec.

0~5℃ Time:10~1 sec

	Dimension (unit: mm ³)		
	Reel	Inner Box	Outer Box