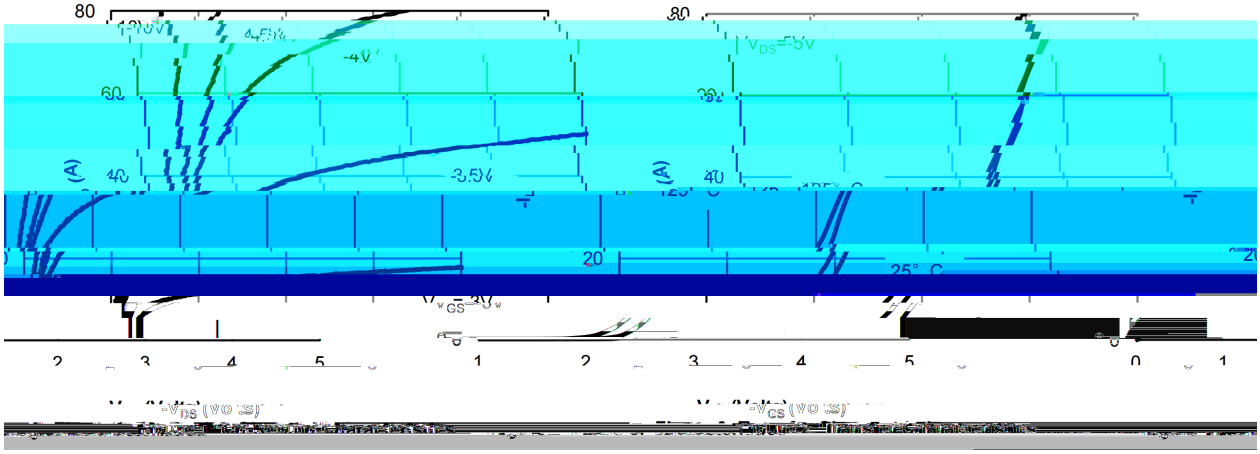
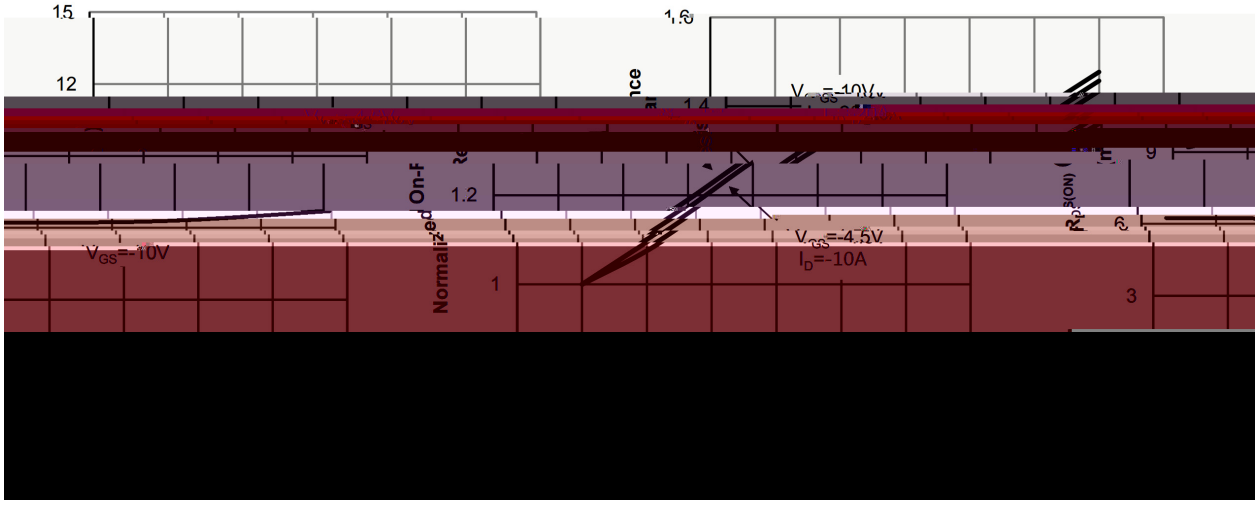
v ‴Ω Parameter	ϒ N Symbol	‴Ω Ö Rating	D Ч Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	I_D(T_c=25)	-45	A
Drain Current – Pulsed	I_{DM}	-126	A
Gate-Source Voltage	V_{GS}	20	V
Power Dissipation	P_D(T_c=25)	30	W
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	360	mJ
Avalanche Current(L=0.5mH)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

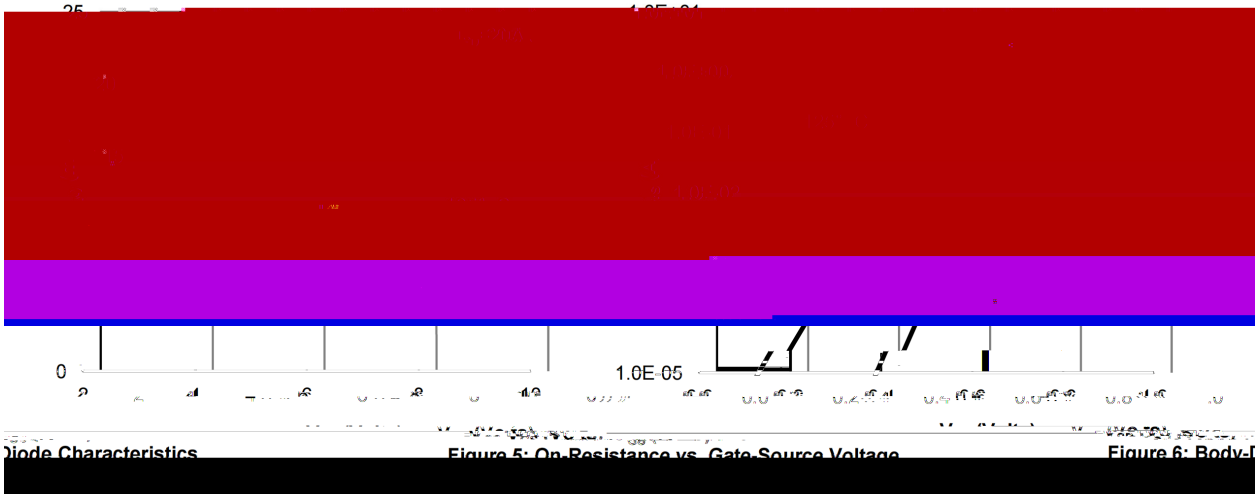
/ Electrical Characteristics(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	╨ ;ˆ ţ Test Conditions	ѡ ŋ Ө Min	Ɛ ʒ Ө Typ	ѡ ᶻ Ө Max	D Ɥ 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		

/ Electrical Characteristic Curve

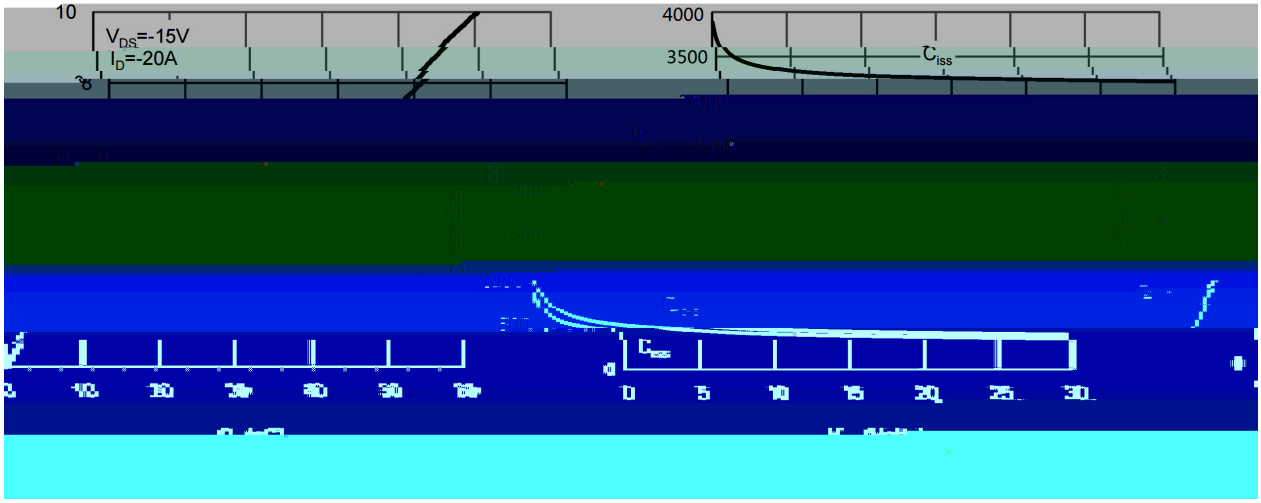


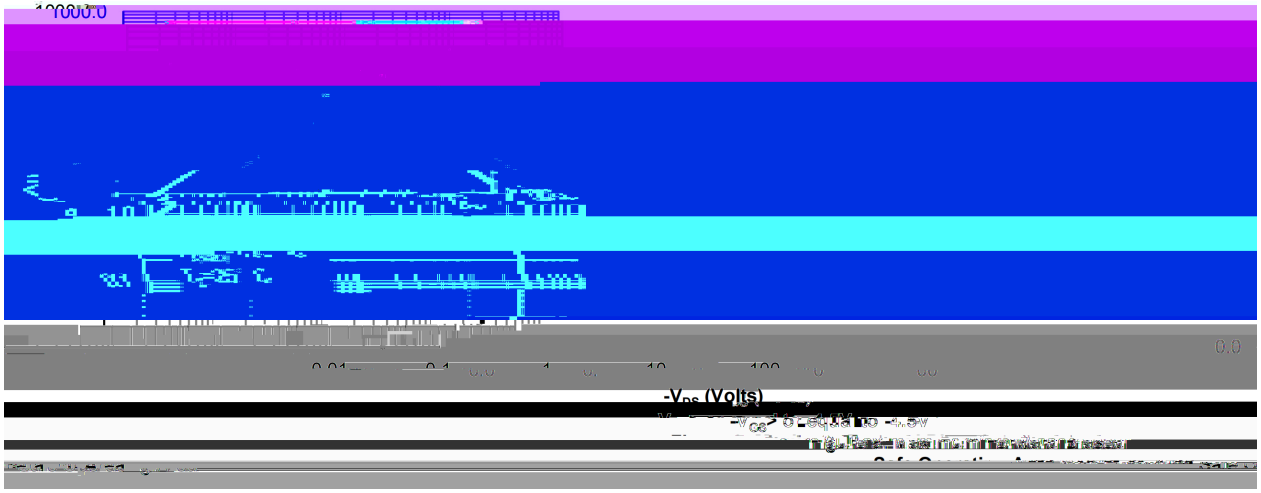


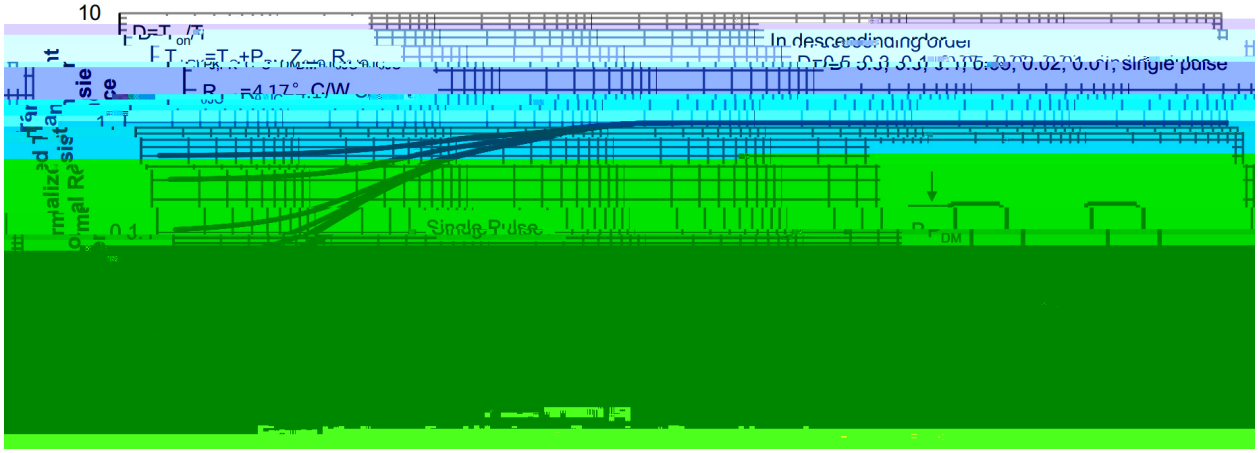


Diode Characteristics Figure 5: On-Resistance vs. Gate-Source Voltage Figure 6: Body-D

/ Electrical Characteristic Curve



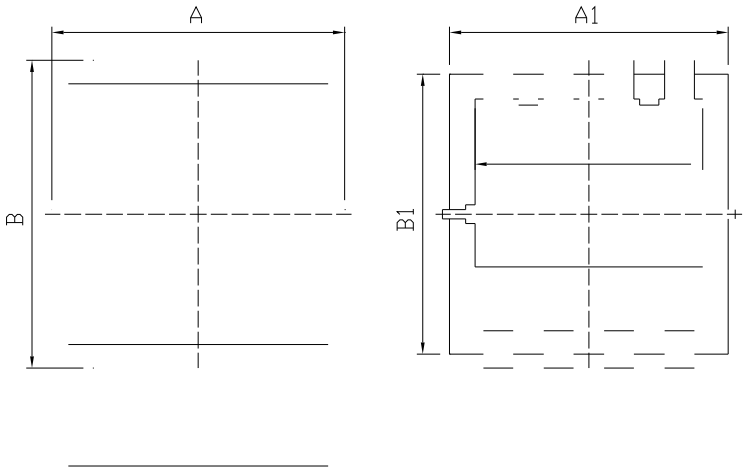




/ Package Dimensions

PDFN3X3A-8L

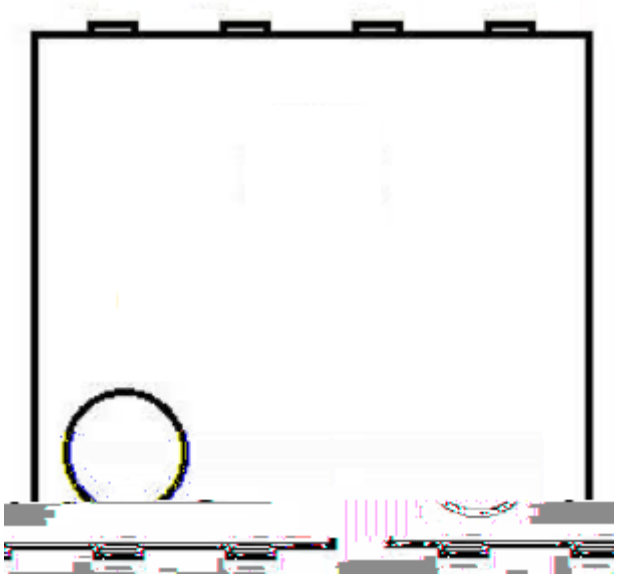
Unit:mm



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

/ Marking Instructions



◌ ˝ χ	
BR χ	ѭ ϗ и Ґ
Q χ	ѭ ∩ ҁ ṅ ғ β ‰ ѵ
070P03 χ	ѭ ȝ ᴺ Ґ
---- χ	ѭ ı ғ ӈ ᴺ Ґ ı ₺ ı ғ ӈ ᴺ Ψ ק

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 200 ɬ ı `H ڑ 60 Ḱ 120sec;

2 Š Ë □ ỷ 255 ° 5 ɬ ı `H ڑ 'Y ʌ ʬ 5 ° 0.5sec;

3 ì ˙ ٢ ˛ ɔ ♭ ỷ ʬ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:150~200 ɬ , Time:60~120sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ɬ `H ڑ χ 10 ° 1 sec. Temp.:260 ° 5 ɬ Time:10 ° 1 sec

/ Packaging SPEC.

ɔ ` ɣ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box