Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	-30	V
Drain Current - Continuous		I_D(T_c=25)	-30	A
Drain Current – Pulsed		I_{DM}	-92	A
Gate-Source Voltage		V_{GS}	± 20	V
Power Dissipation		P_D(T_c=25)	28	W
Single Pulse Avalanche Energy(L=0.5mH)		E_{AS}	152	mJ
Avalanche Current(L=0.5mH)		I_{AS}	19.5	A
Junction and Storage Temperature Range		T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	t ≤ 10s	$R_{\theta JA}$	28	/ W
	Steady-State		62	
Thermal resistance, junction - case	Steady-State	$R_{\theta JC}$	4.5	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=-10V V_{DS}=-15V R_L=1.5Ω R_{GEN}=3Ω		10		ns
Turn-On Rise Time	t_r			5.5		
Turn-Off Delay Time	$t_{d(off)}$			26.1		
Turn-Off Fall Time	t_f			9.1		

/ Electrical Characteristic Curve

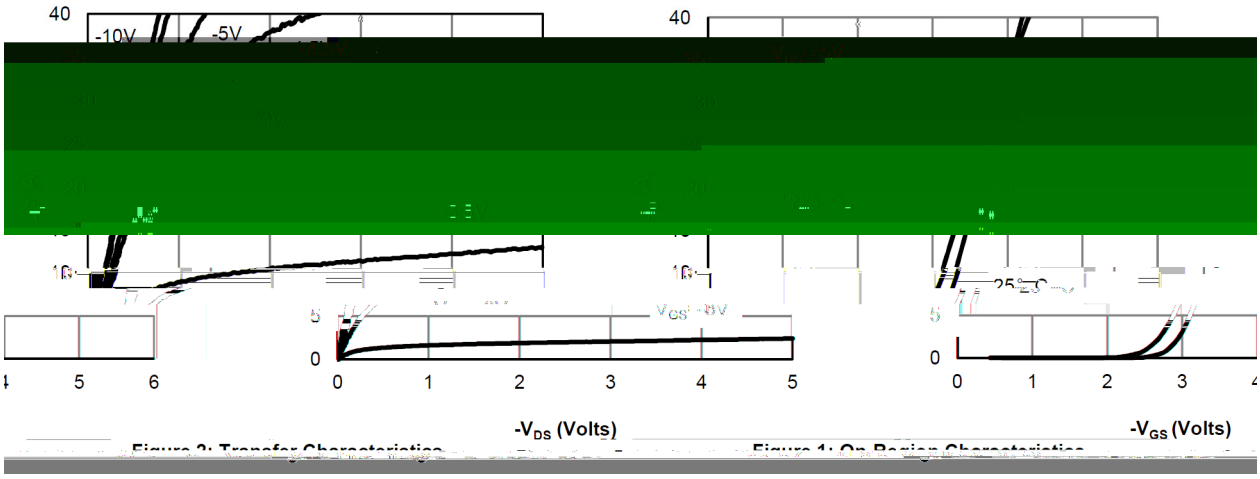
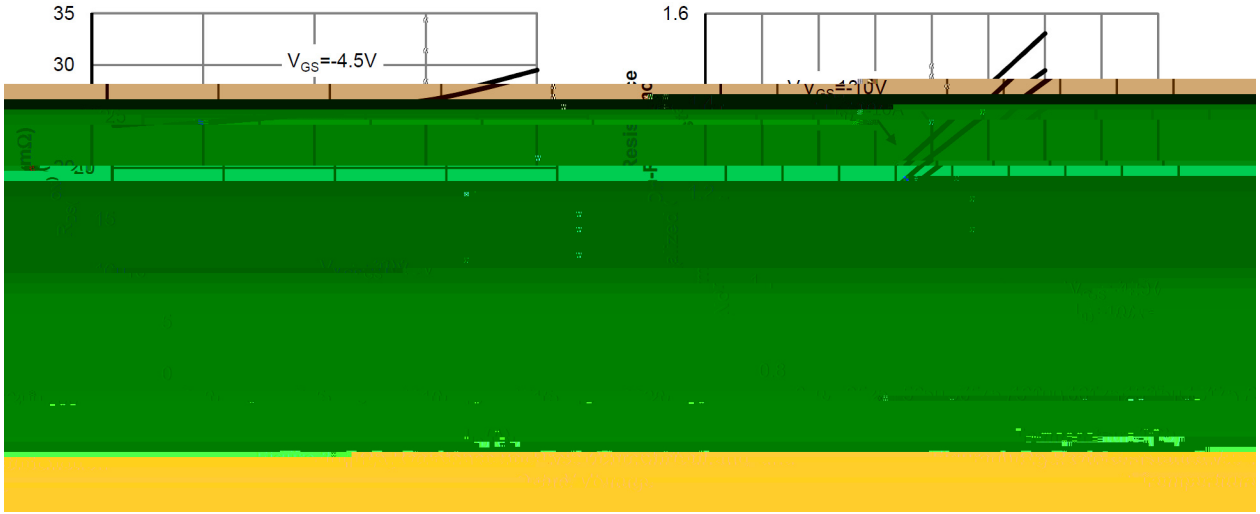
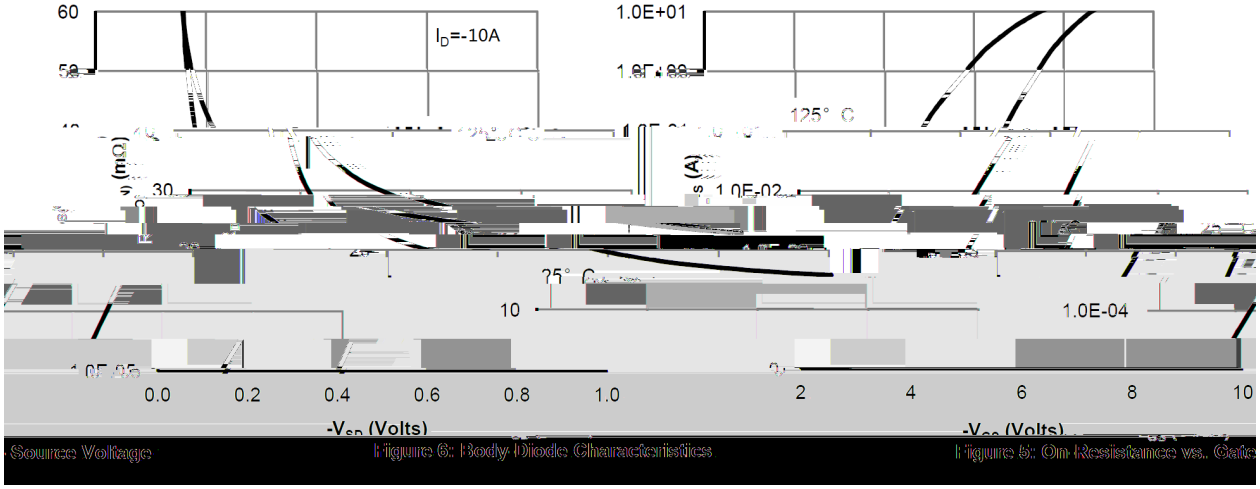


Figure 2: Transfer Characteristics Figure 1: On-Region Characteristics





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

/ Electrical Characteristic Curve

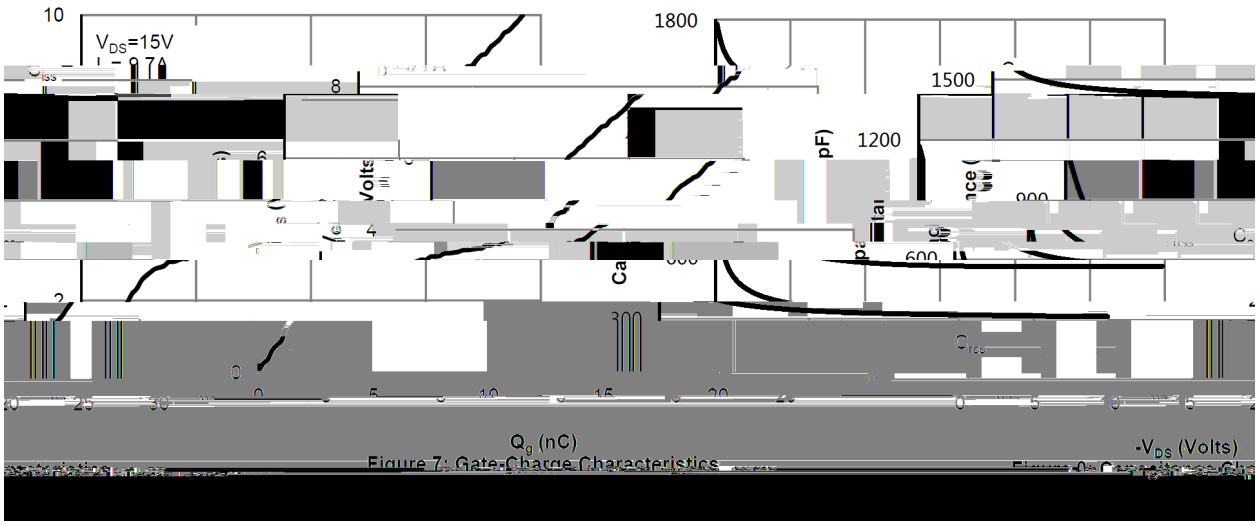
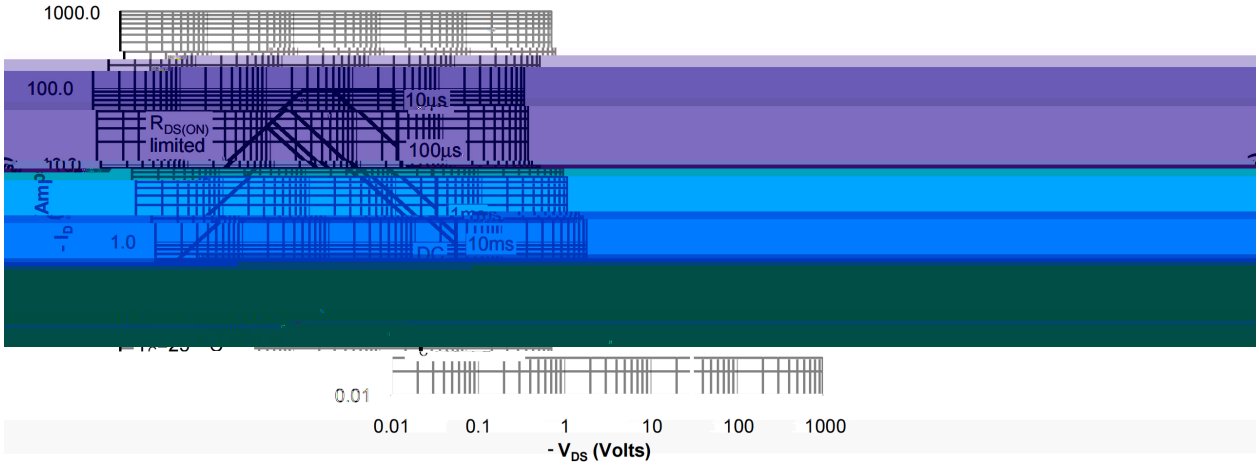
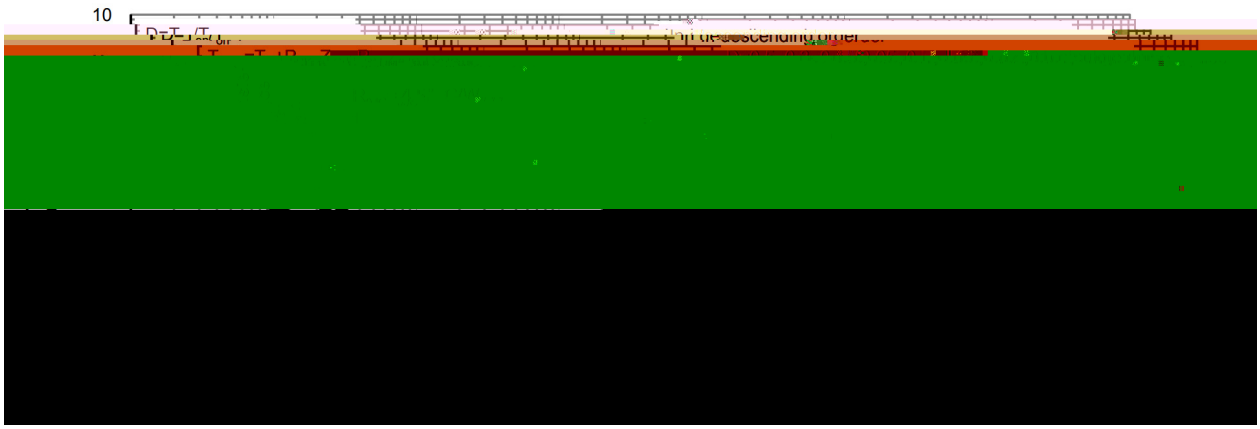


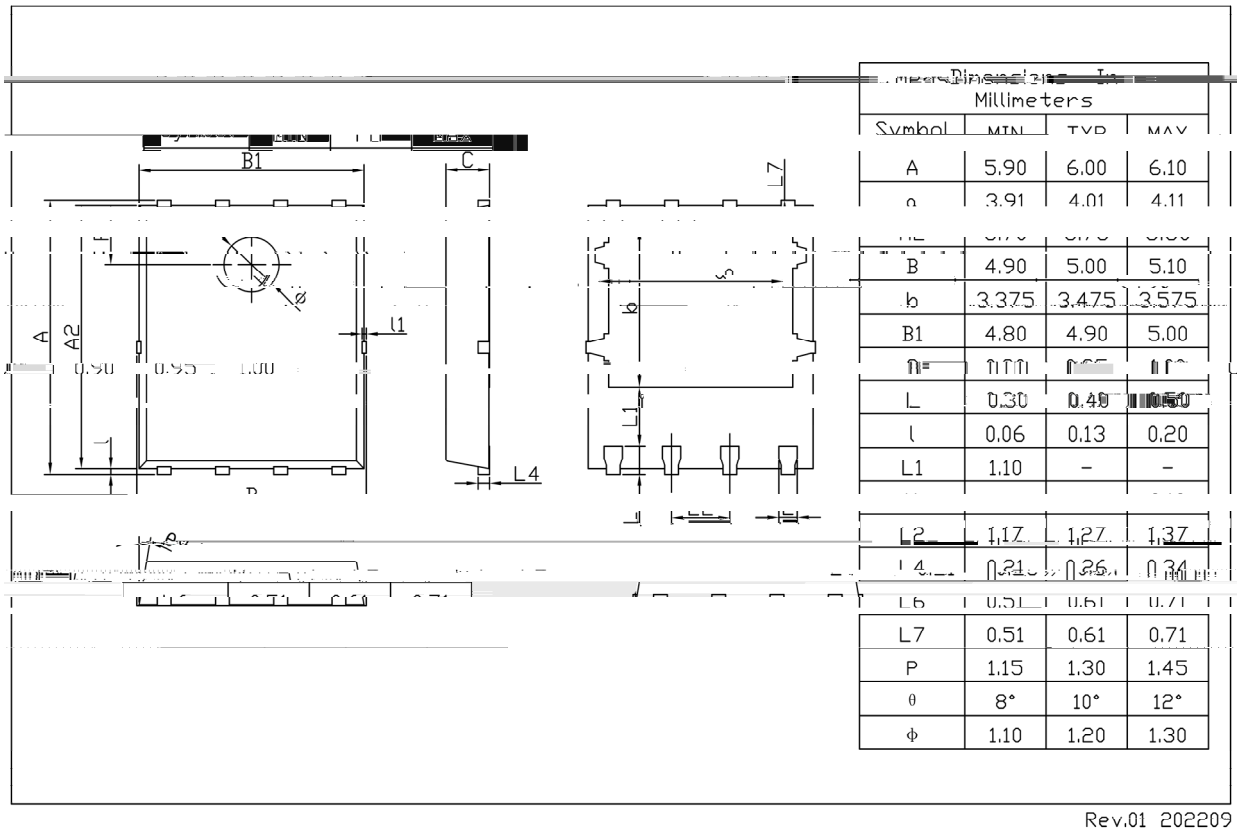
Figure 7: Gate-Charge Characteristics





/ Package Dimensions

PDFN5×6 Unit:mm



Symbol	Millimeters MIN	TYP	MAX
A	5.90	6.00	6.10
[illegible]	3.91	4.01	4.11
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
[illegible]	[illegible]	[illegible]	[illegible]
L	0.30	0.40	0.50
l	0.06	0.13	0.20
L1	1.10	–	–
L2	1.17	1.27	1.37
L4	0.21	0.26	0.34
L6	0.51	0.61	0.71
L7	0.51	0.61	0.71
P	1.15	1.30	1.45
θ	8°	10°	12°
Φ	1.10	1.20	1.30

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/ Marking Instructions



200P03

Note

BR

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

pQ 61@5˜ „y˜ï •bY€ Dy˜ï ”c`˜0 c„NñR`5˜ „y˜ï 3c`˜l8D¦,HbY€ Dy˜ï,–6 „+8Dï'@@5˜ „y˜ï'E6 • 8Dï:'

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：mm³)
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	[illegible]	