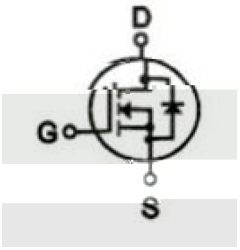
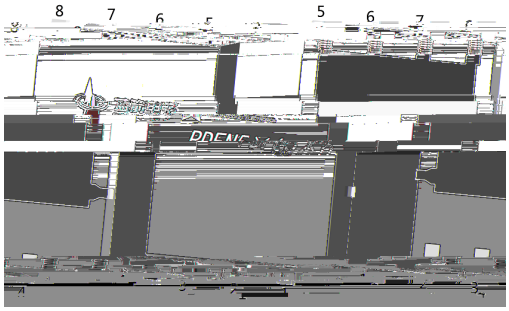
PDFN5×6 N
N-Channel MOSFET in a PDFN5 6 Plastic Package.

Low $R_{DS(ON)}$ to minimize conductive loss;low Gate Charge for fast switching;Low Thermal resistance; HF Product.

LED
For boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.





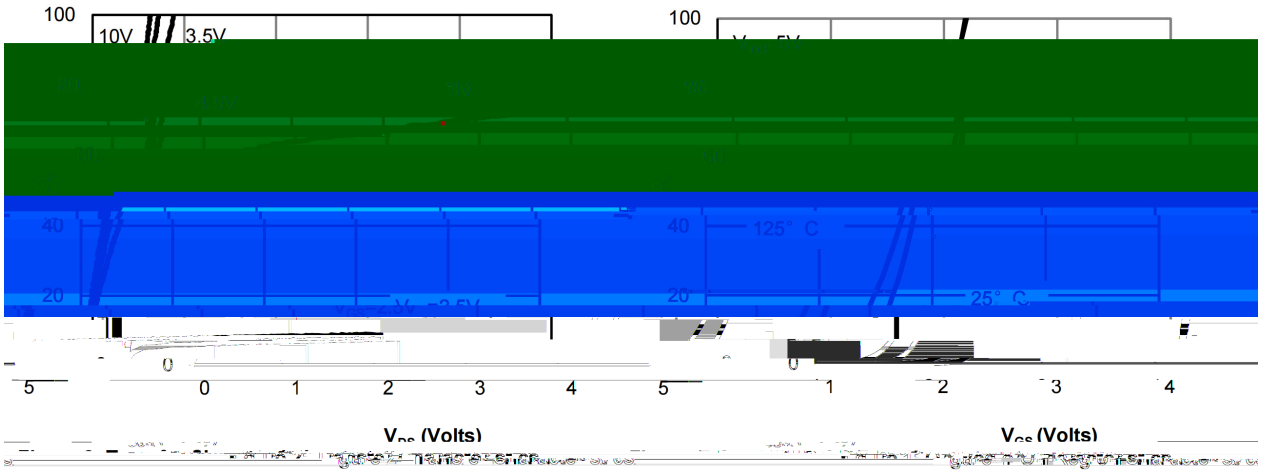
PIN1 2 3 S PIN4

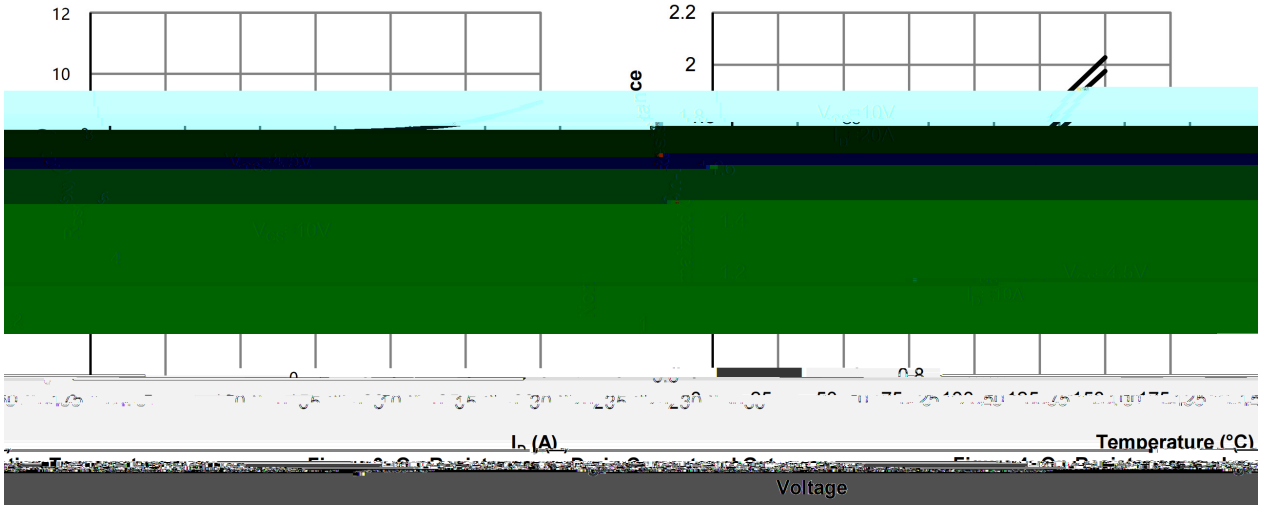
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	100	V
Drain Current - Continuous	I_D	90	A
Drain Current – Pulsed	I_{DM}	200	A
Gate-Source Voltage	V_{GS}	20	V
Power Dissipation	$P_D(T_c=25$)		

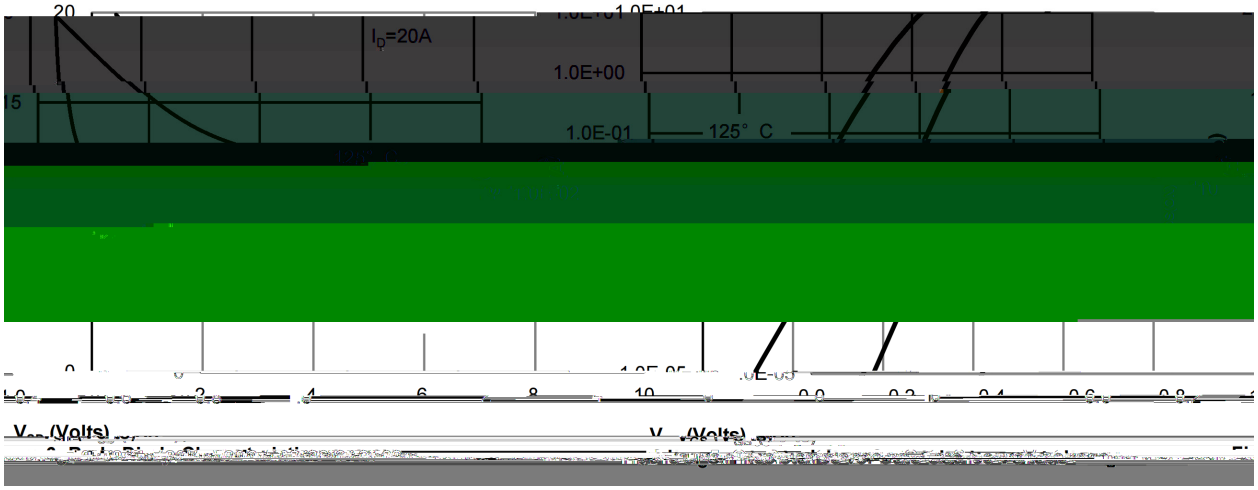
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{D(on)}$	V_{GS}=10V, V_{DS}=50V, R_L=2.5Ω, R_{GEN}=3Ω		10		ns
Turn-On Rise Time	t_r			6		
Turn-Off Delay Time	$t_{D(off)}$			51		
Turn-Off Fall Time	t_f			9		

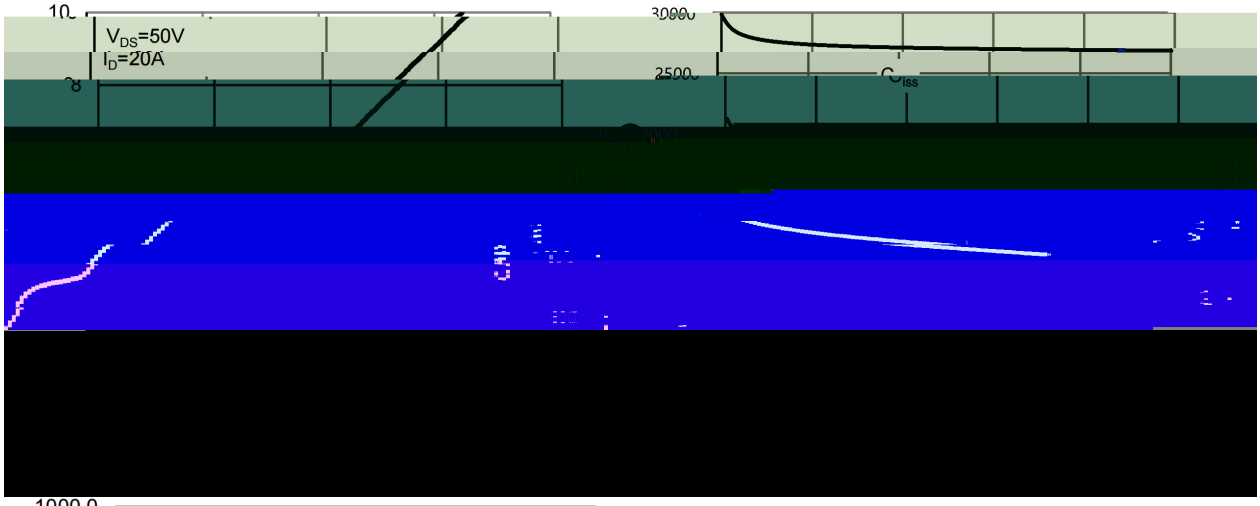
/ Electrical Characteristic Curve

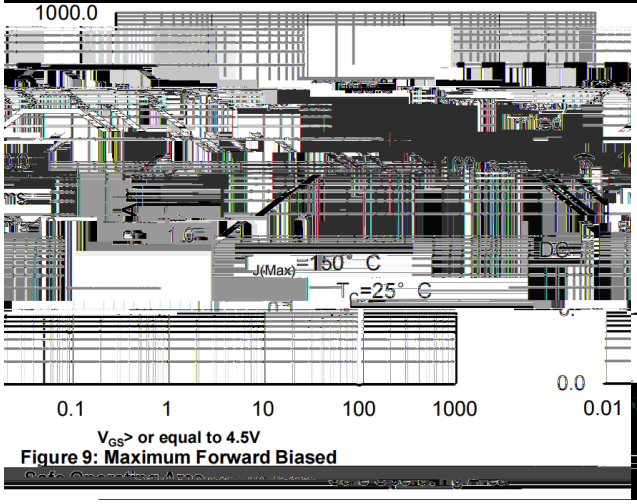






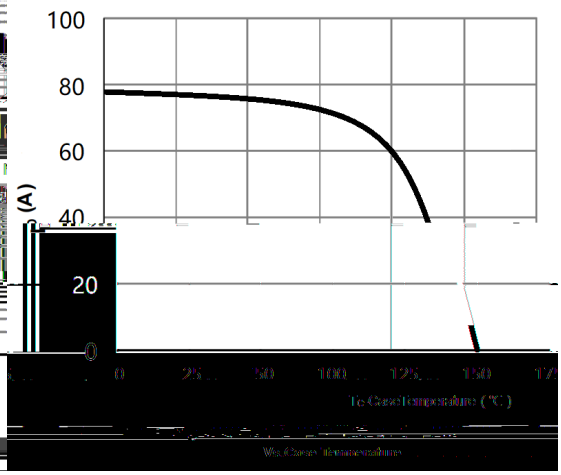
/ Electrical Characteristic Curve

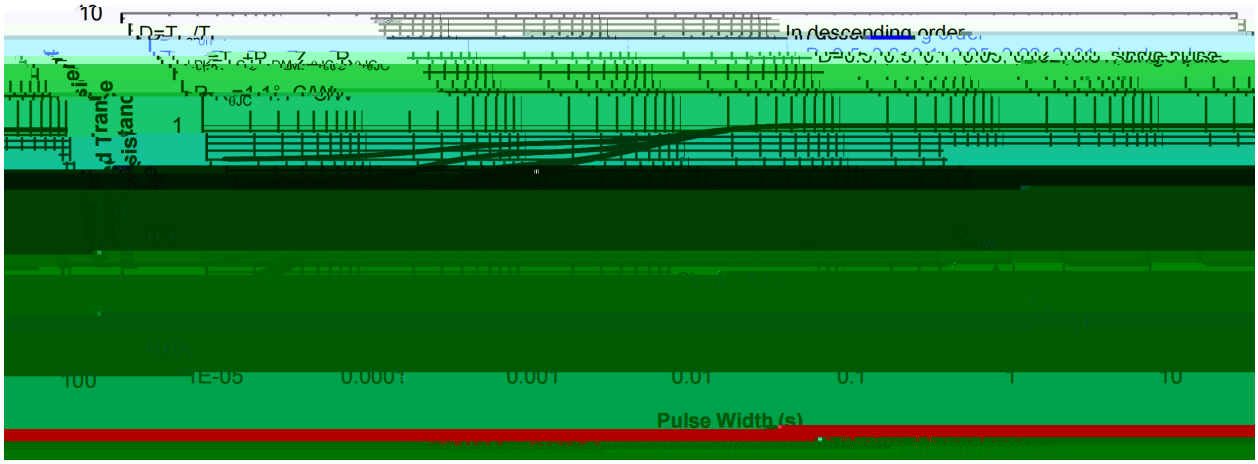




V_{GS}> or equal to 4.5V

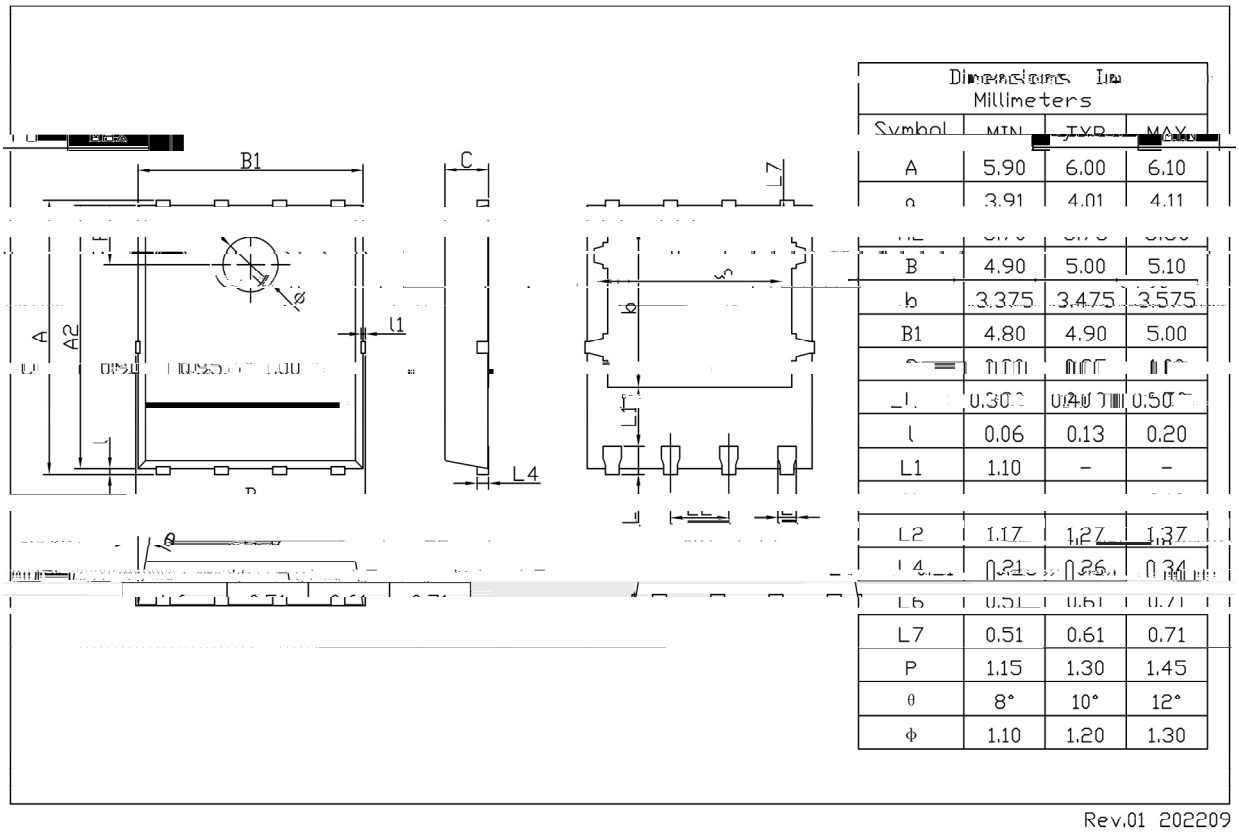
Figure 9: Maximum Forward Biased





/ Package Dimensions

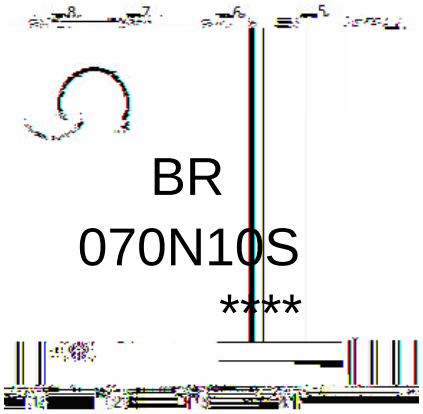
PDFN5×6 Unit:mm



Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	5.90	6.00	6.10
A2	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
C	0.90	1.00	1.10
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



BR

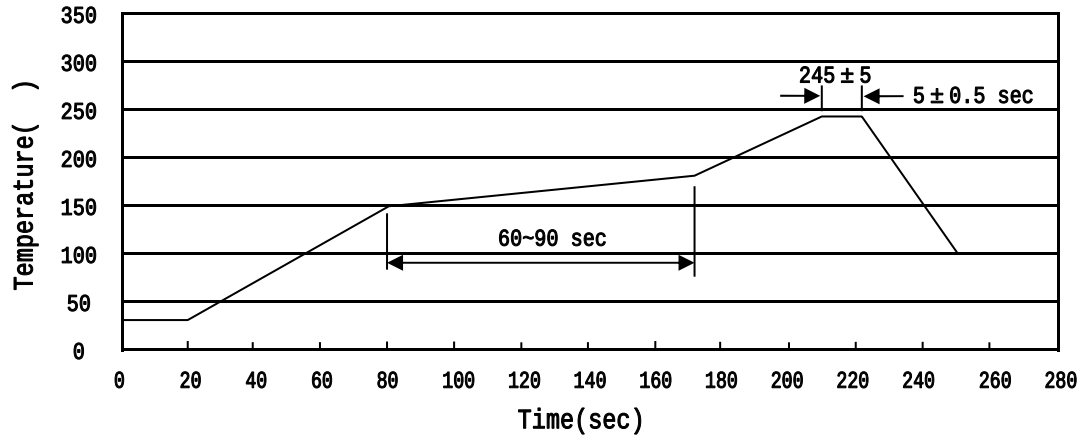
070N10S

****

Note

BR	Company Code
070N10S	Product Type Code
****:	Lot No. Code, code change with Lot No

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



			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 /	Reel	Inner Box	Outer Box
PDFN5×6	5,000	2	10,000	6	60,000	13''×12	360×360×50	380×335×366

/ Notices