

Rev.B Dec.-2023

PDFN5×6A N
Dual N-CHANNEL MOSFET in a PDFN5×6A Plastic Package.

$V_{DS}(V)=100V$ $I_D=13.7A$
R

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	100	V
Continuous Drain Current	I_D	13.7	A
Pulsed Drain Current	I_{DM}	48	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	35.7	W
Avalanche energy(L=0.5mH)	E_{AS}	2.7	mJ
Avalanche Current(L=0.5mH)	I_{AS}	3.3	A



Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=10\ \Omega$ $R_{GEN}=3\ \Omega$		4		ns
Turn-On Rise Time	t_r			2		
Turn-Off Delay Time	$t_{d(off)}$			15		
Turn-Off Fall Time	t_f			2		

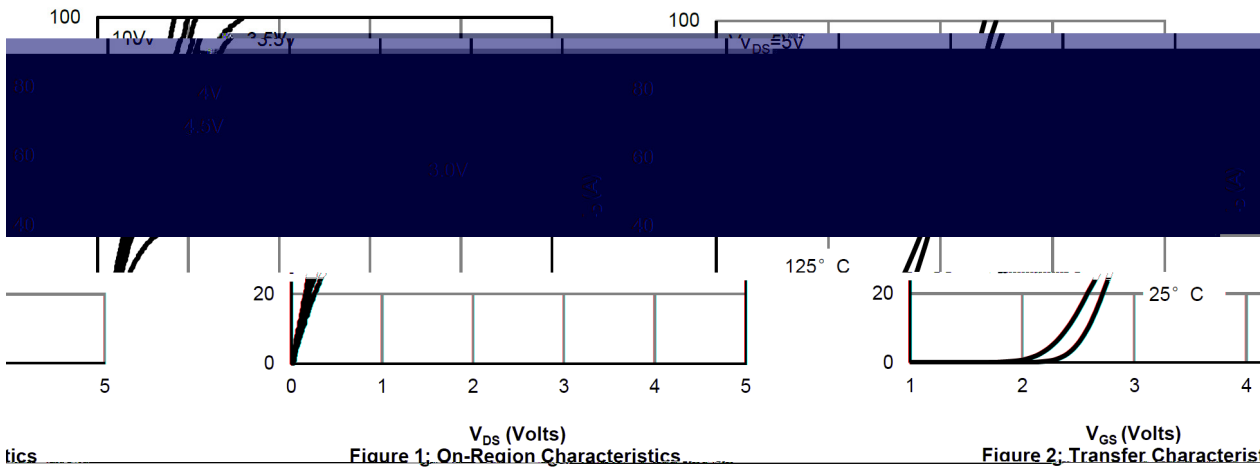


Figure 1: On-Region Characteristics Figure 2: Transfer Characteristics

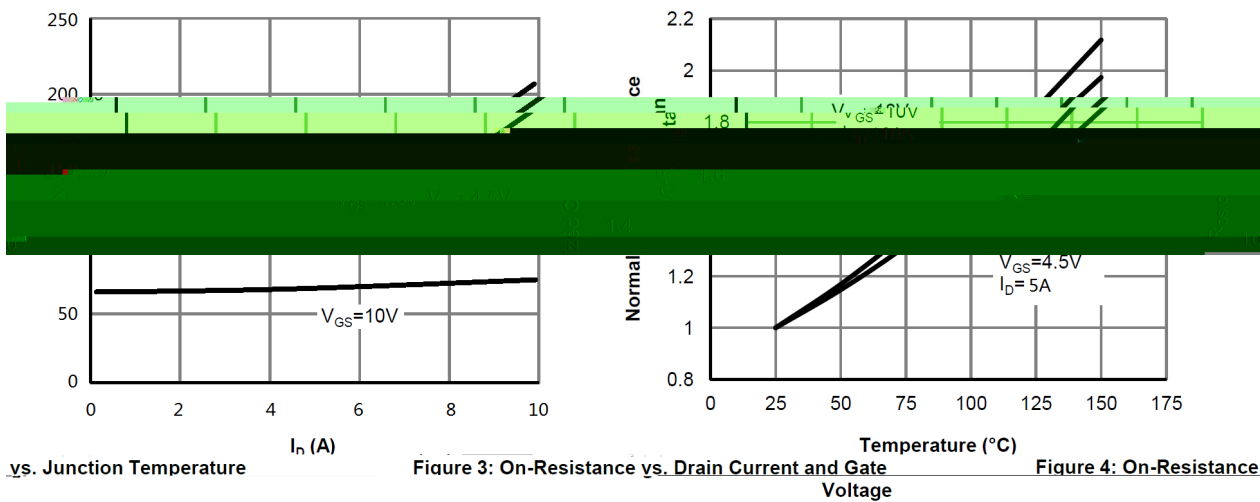
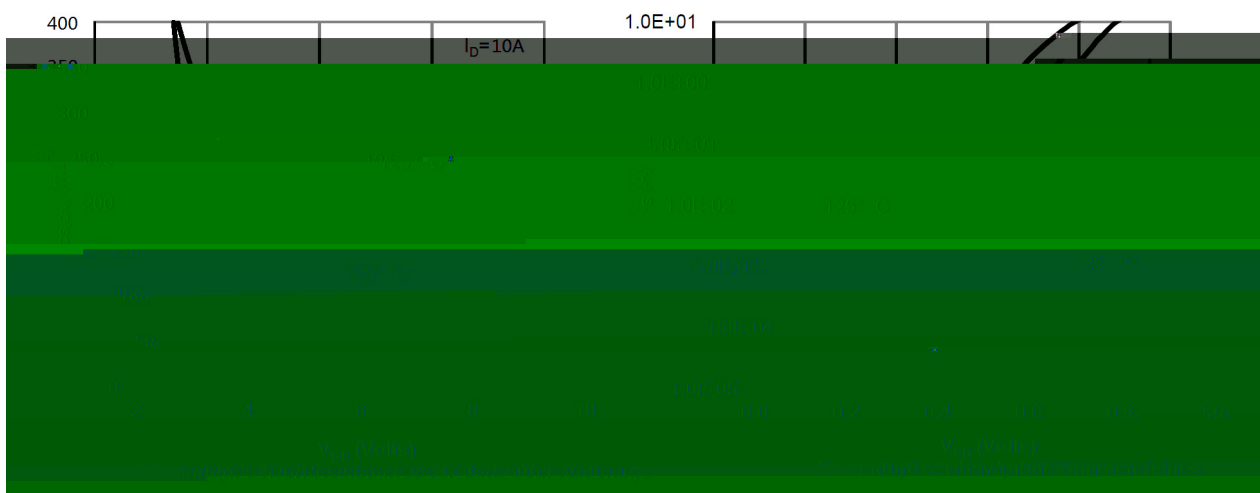
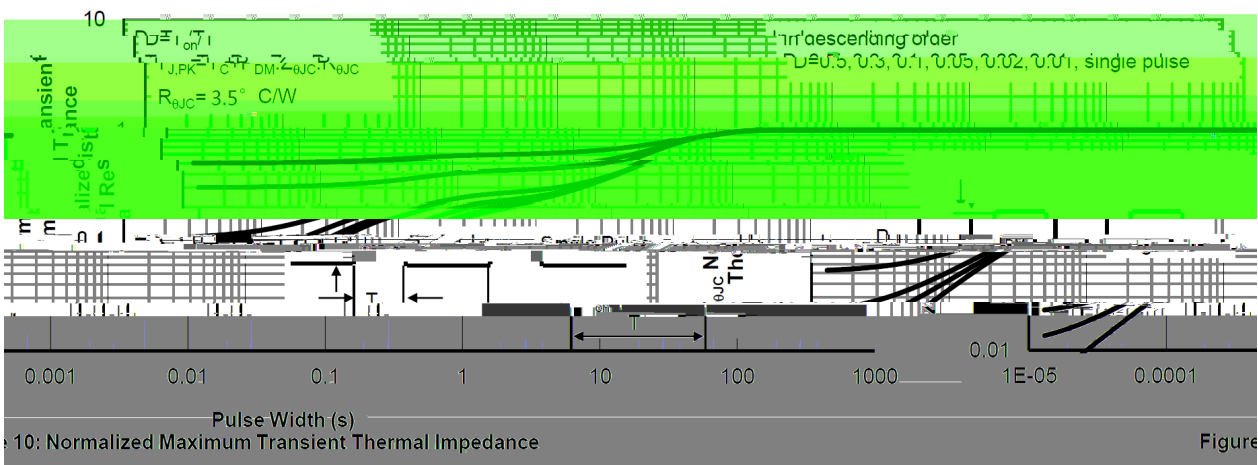
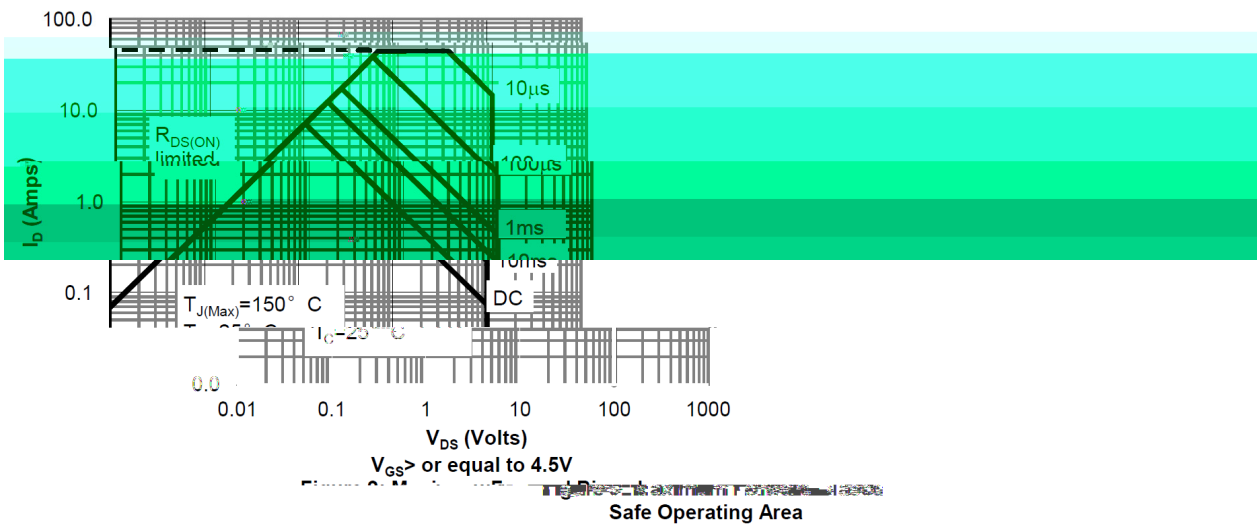
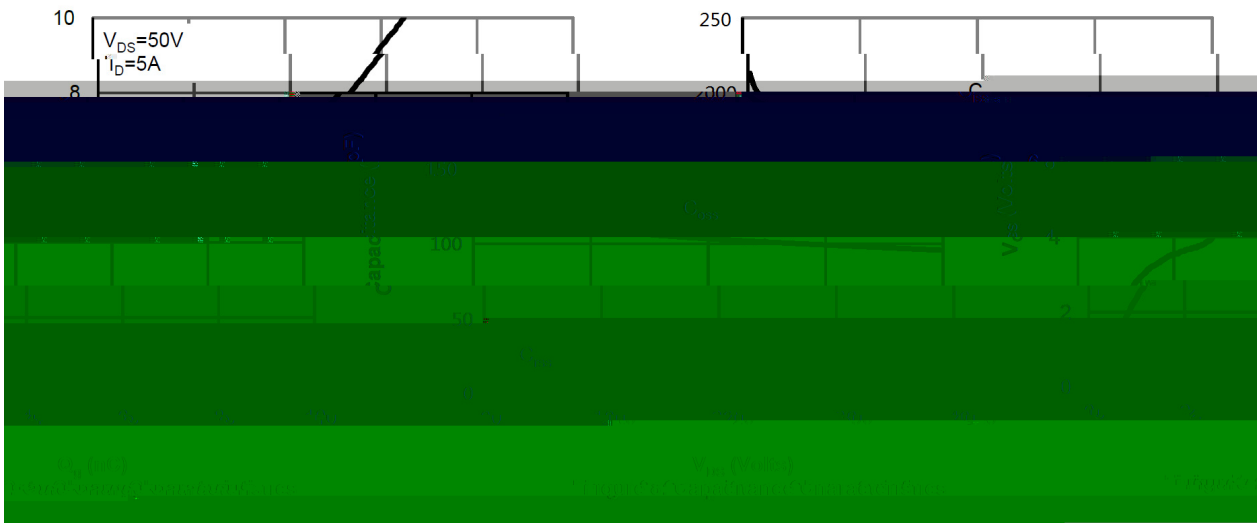


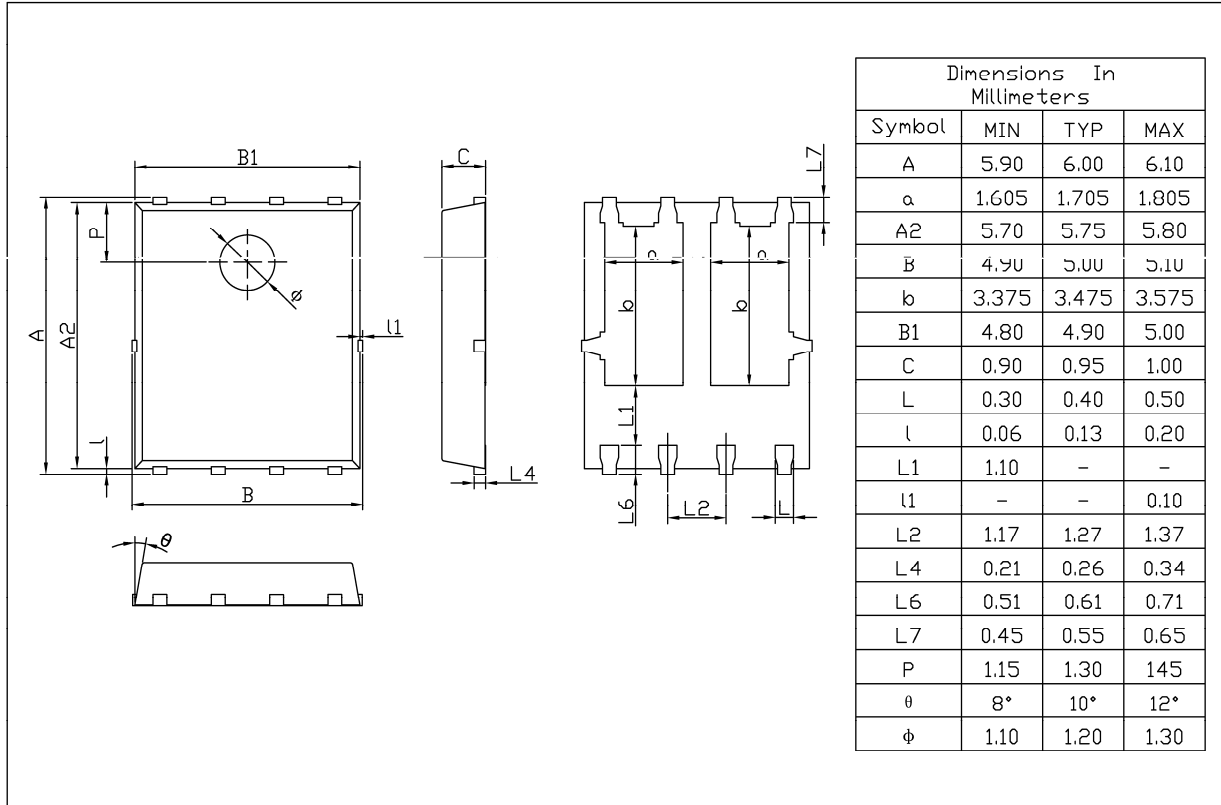
Figure 3: On-Resistance vs. Drain Current and Gate Voltage Figure 4: On-Resistance vs. Junction Temperature



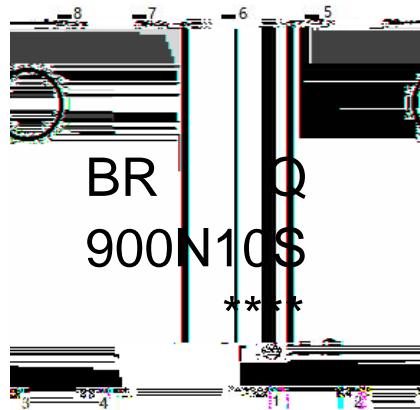


PDFN5 X6A

Unit:mm



Rev.01 202209



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900N10S

Note

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Company Code

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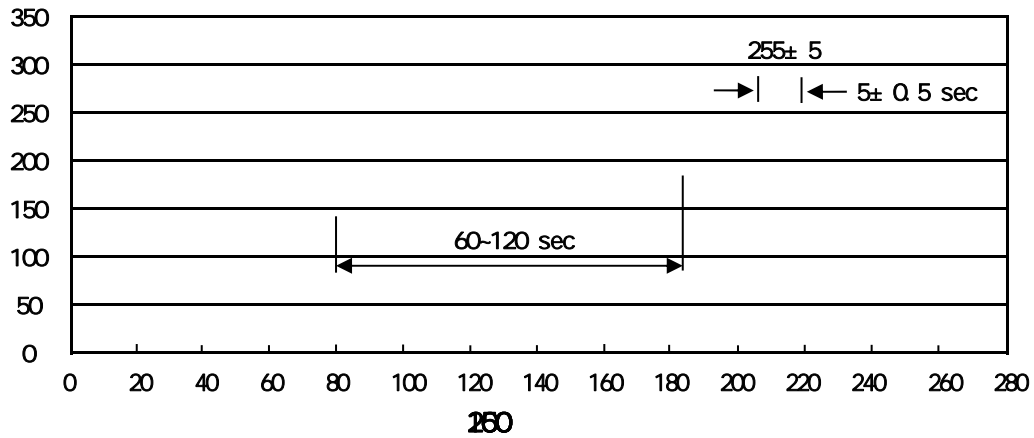
Automobile halogen-free product Code

900N10S

Product Type Code

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Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)


- Note:
- | | | | |
|---|---------|------------|---|
| 1 | 150 200 | 60 120sec; | 1.Preheating:150~200 , Time:60~120sec. |
| 2 | 255±5 | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	/	/	/	/	/			
PDFN5x6A	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366