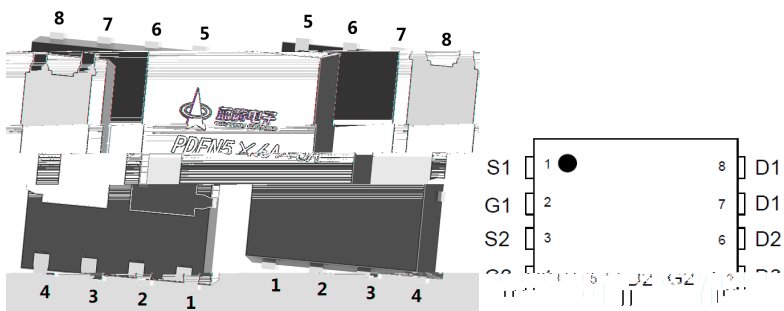
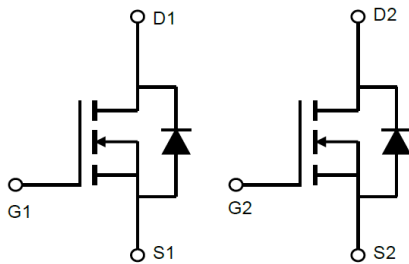


Rev.B May.-2024

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

$V_{DS}(V)=30V$   $I_D=52A$   
 $R_{DS(ON)}@10V<5.5m$  (Typ. 5.2 m )  
 $R_{DS(ON)}@4.5V<9.5m$  (Typ. 7.6 m )  
 HF Product.

PWM LED  
 PWM Application, Load Switch, Power Management, Dimming LED.

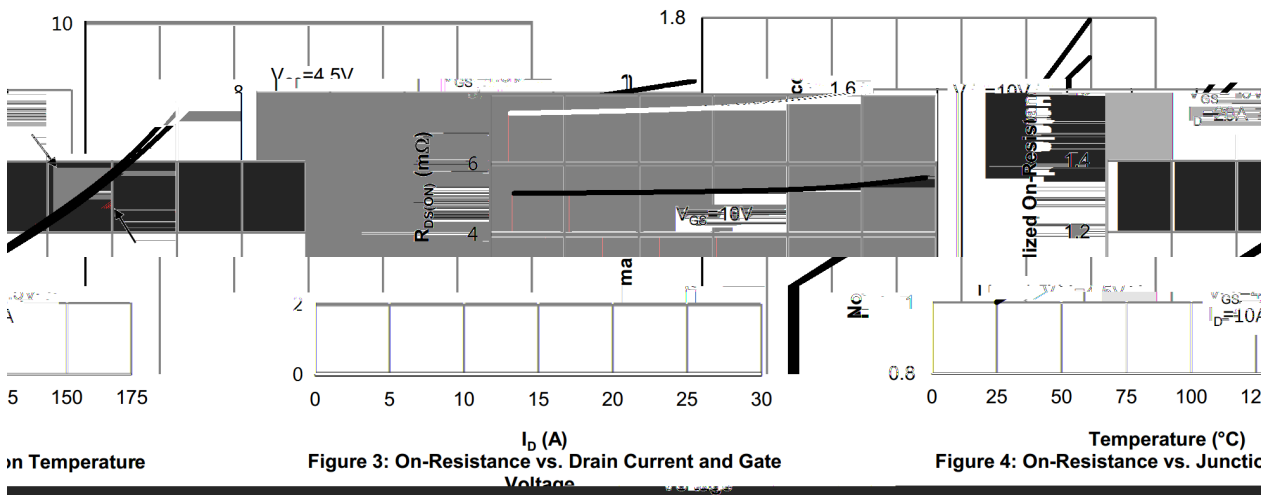
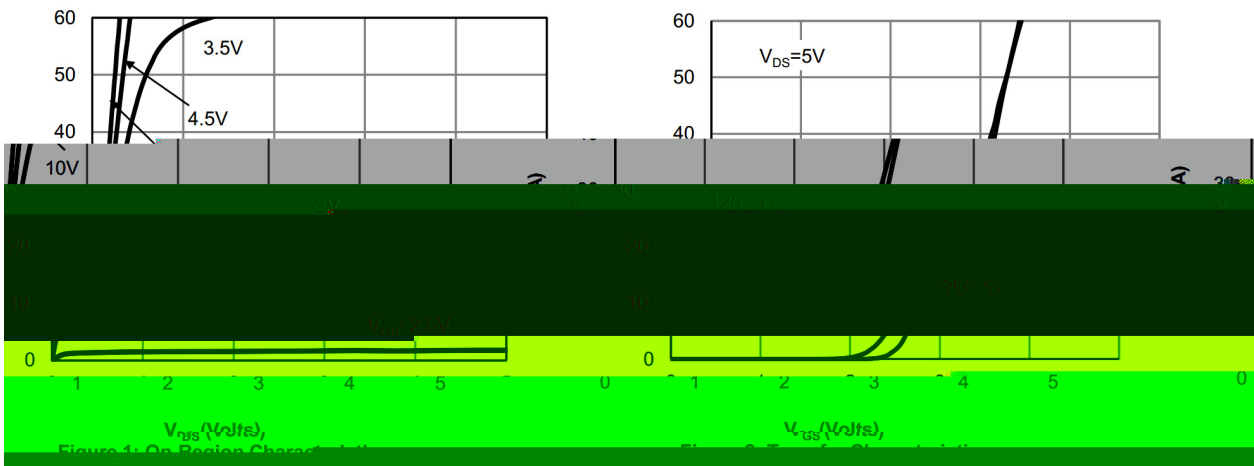


See Marking Instructions.

| Parameter            | Symbol           | Rating | Unit |
|----------------------|------------------|--------|------|
| Drain-Source Voltage | V <sub>DSS</sub> | 30     | V    |



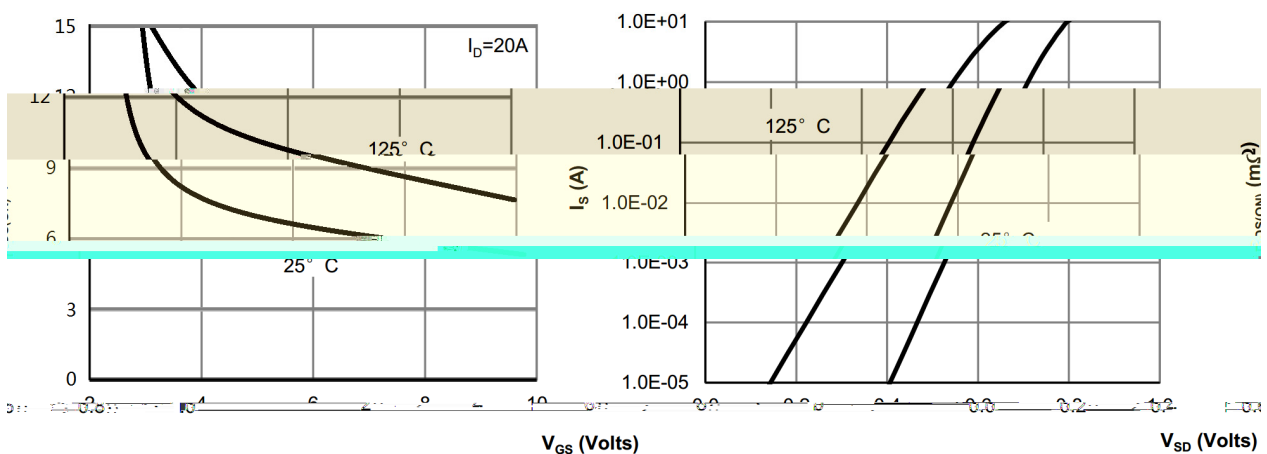
| Parameter           | Symbol       | Test Conditions                                                          | Min | Typ | Max | Unit |
|---------------------|--------------|--------------------------------------------------------------------------|-----|-----|-----|------|
| Turn-On Delay Time  | $t_{d(on)}$  | $V_{DS}=15\text{ V}$<br>$R_L=0.75$<br>$V_{GS}=10\text{V}$<br>$R_{GEN}=3$ |     | 11  |     | ns   |
| Turn-On Rise Time   | $t_r$        |                                                                          |     | 14  |     | ns   |
| Turn-Off Delay Time | $t_{d(off)}$ |                                                                          |     | 38  |     | ns   |
| Turn-Off Fall Time  | $t_f$        |                                                                          |     | 10  |     | ns   |



on Temperature

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

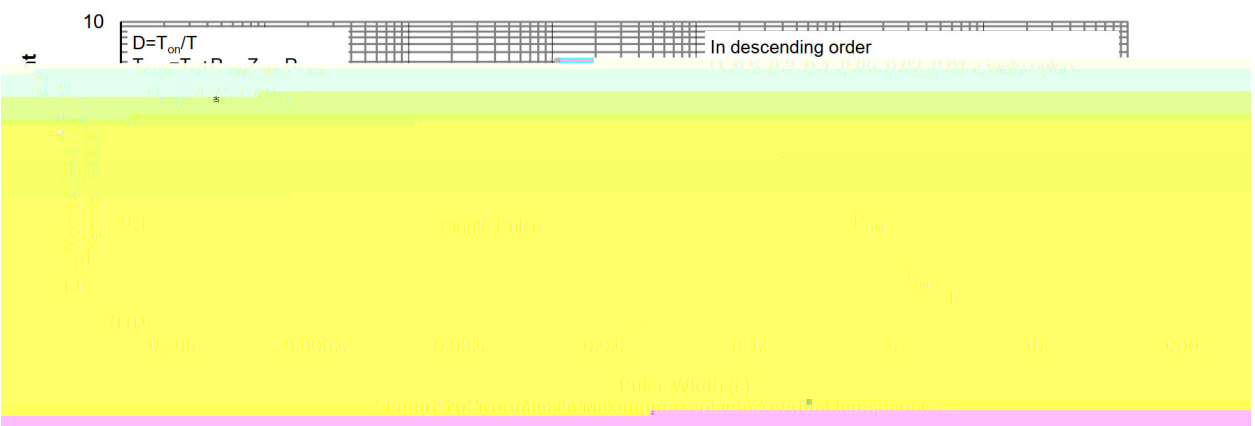
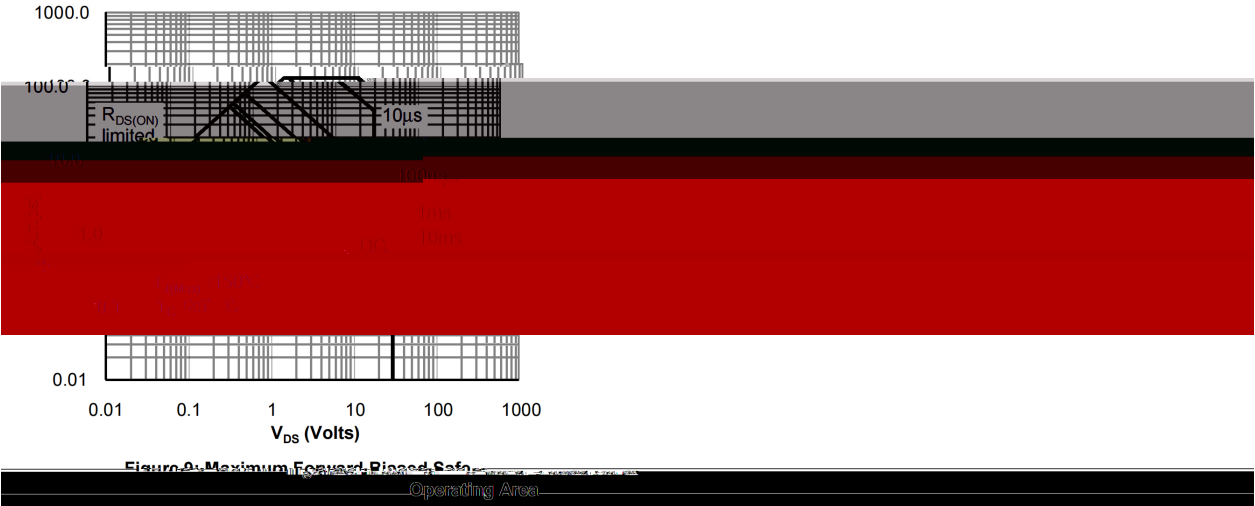
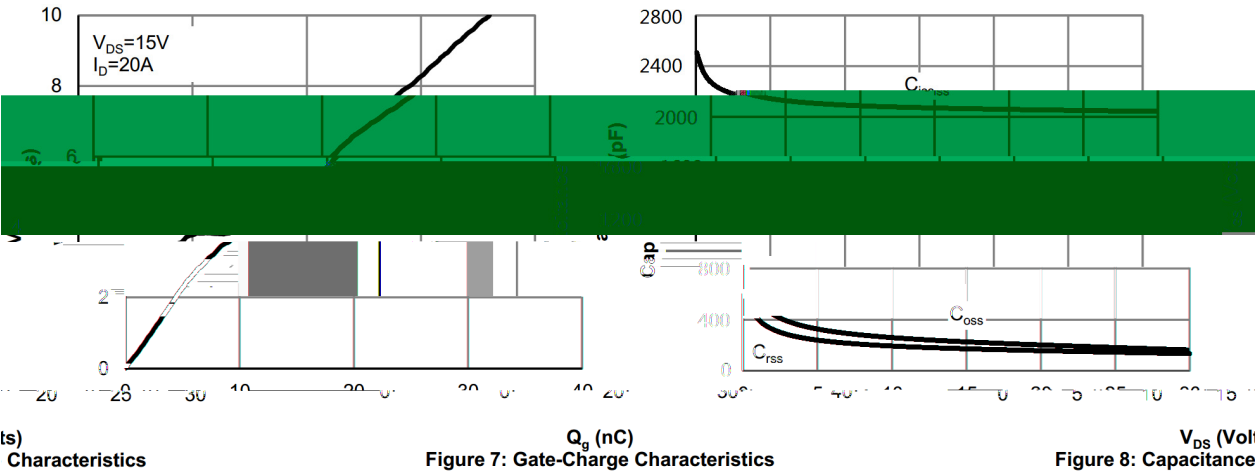
Figure 4: On-Resistance vs. Junction



On-Resistance

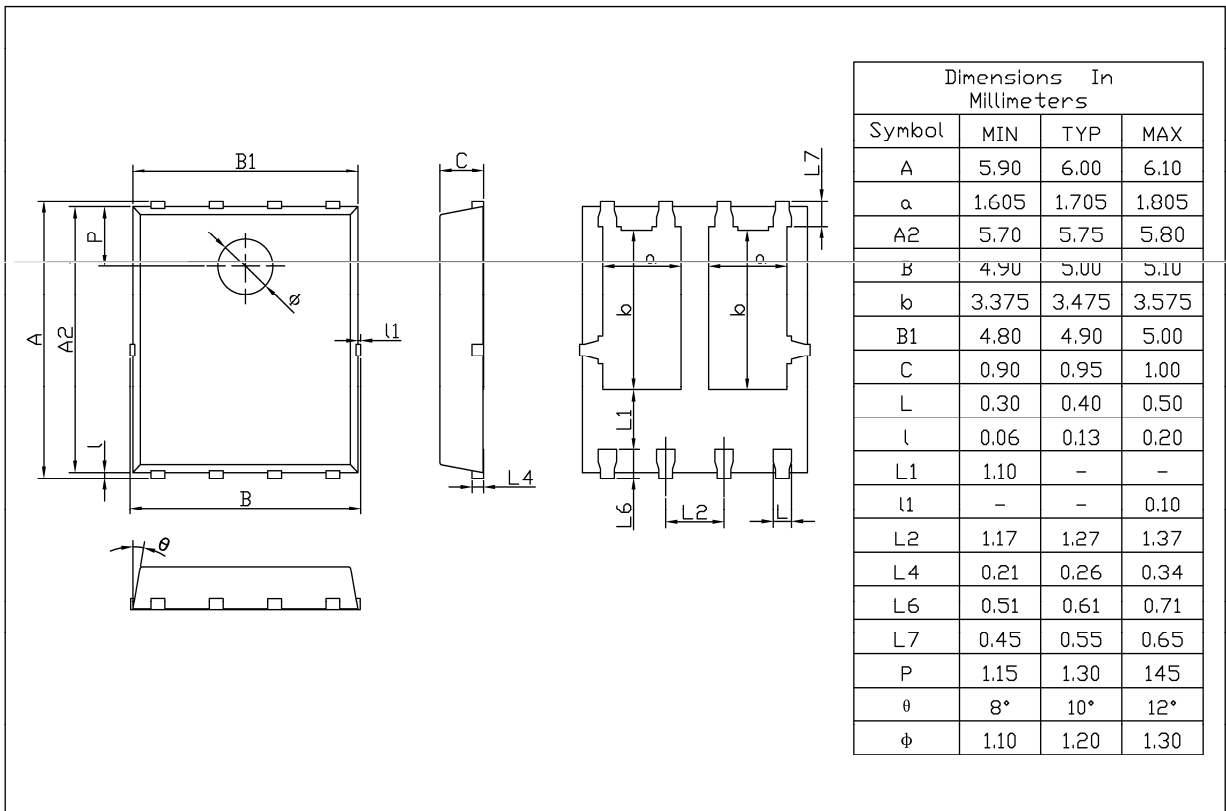
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: On-Resistance vs. Drain-Source Voltage



PDFN5 X6A

Unit:mm



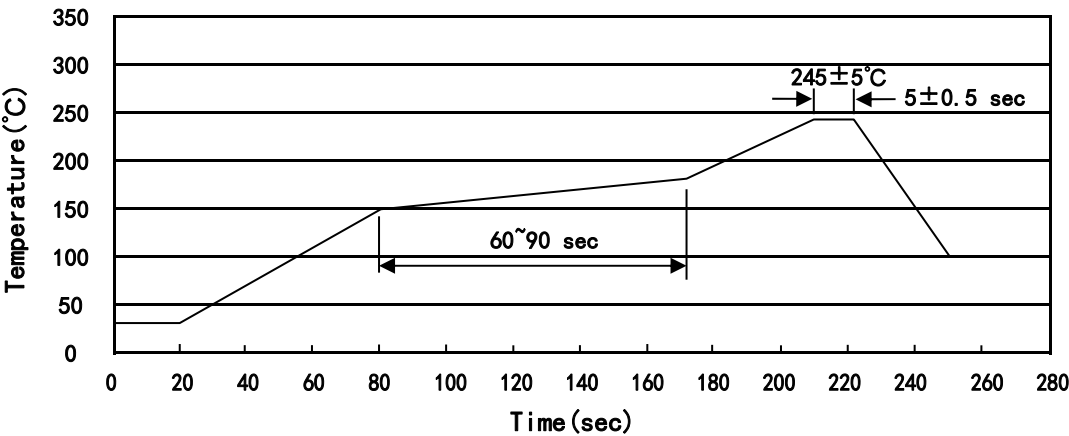
Rev.01 202209



055N03

Note

|        |                                       |
|--------|---------------------------------------|
| BR     | Company Code                          |
| 055N03 | Product Type Code                     |
| ****:  | Lot No. Code, code change with Lot No |



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.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

| Package Type | Units |   |        |   |        | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|-------|---|--------|---|--------|-----------------------------------|------------|-------------|
|              |       |   |        |   |        |                                   |            |             |
| PDFN5×6A     | 5,000 | 2 | 10,000 | 6 | 60,000 | 13"×12                            | 360×360×50 | 380×335×366 |