



## P-Channel and P-Channel Complementary MOSFET

### ProduQSummary

|                                    |        |
|------------------------------------|--------|
| $V_{DS}$                           | -30 V  |
| $I_D$                              | -5.1 A |
| $R_{DS(ON)}$ ( at $V_{GS}=-10V$ )  | 43 m   |
| $R_{DS(ON)}$ ( at $V_{GS}=-4.5V$ ) | 59 m   |

### General Description

High density cell design for low  $R_{DS(ON)}$   
High Speed switching  
Moisture Sensitivity Level 3  
Epoxy Meets UL 94 V-0 Flammability Rating  
Halogen Free

### Applications

Wireless charger  
Load switch  
Power management

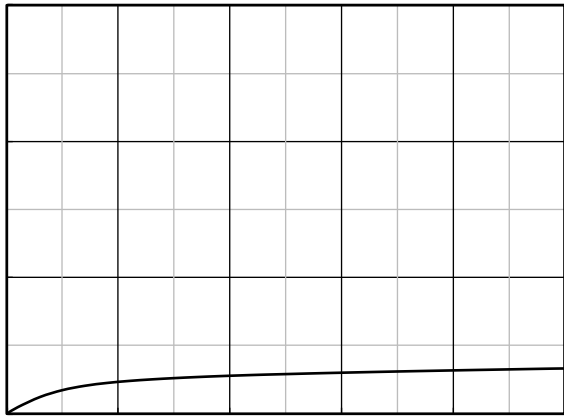
**Absolute Maximum Ratings** ( $T_A=25$  unless otherwise noted)

Parameter





Typical Electrical and Thermal Characteristics Diagrams



3



Figure 7.  $R_{DS(on)}$  VS Drain Current

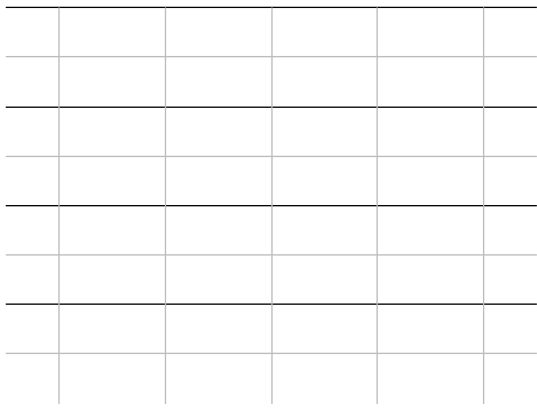


Figure 8. Forward characteristics of reverse diode

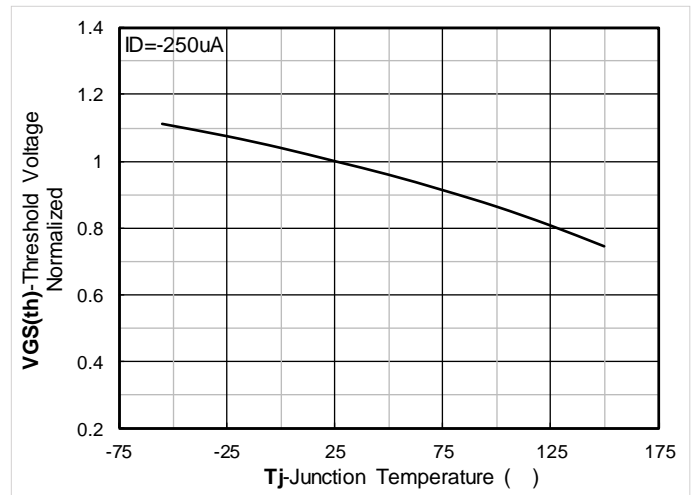


Figure 9. Normalized breakdown voltage

Figure 10. Normalized Threshold voltage

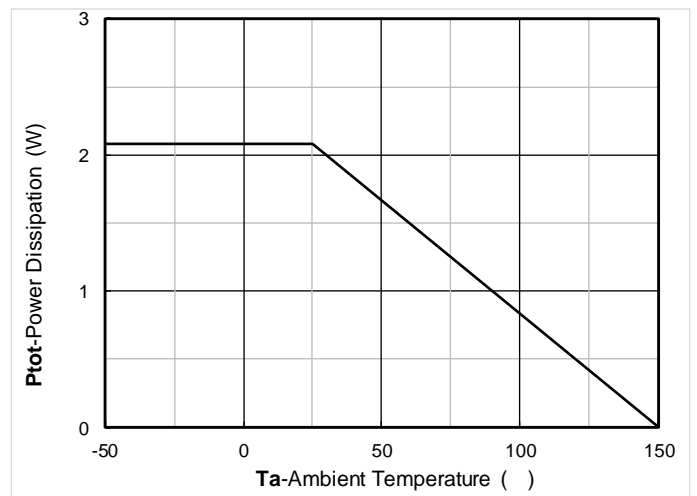
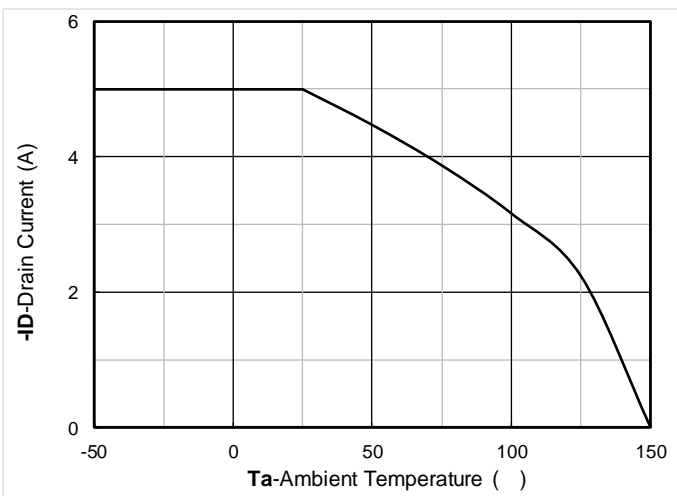


Figure 11. Current dissipation

Figure 12. Power dissipation

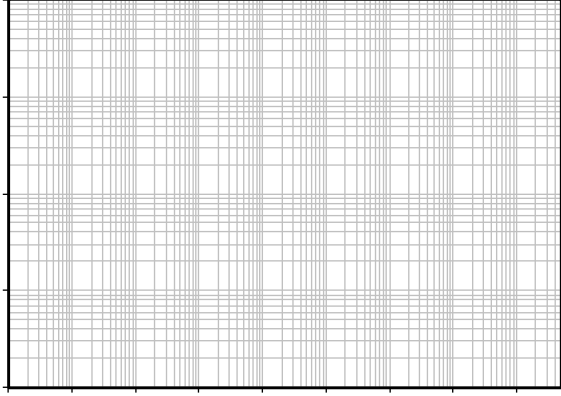


Figure 13. Maximum Transient Thermal Impedance

Figure 14



SOP-8 Package information

| SYMBOL | MIN.     |       |          |
|--------|----------|-------|----------|
|        | 0.053    | 0.069 |          |
| B      | 0.004    | 0.010 |          |
|        |          | 0.061 |          |
| D      |          | 0.020 |          |
| E      |          |       |          |
| F      |          |       |          |
| G      | 0.050BSC |       | 1.270BSC |
| H      |          |       |          |
| J      |          |       |          |
| K      |          |       |          |
|        |          |       |          |

