



**Electrical Characteristics** ( $T_J = 25^{\circ}\text{C}$  unless otherwise specified)

Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>Off Characteristics</b>					



# Typical Performance Characteristics

Figure 1: Power De-rating

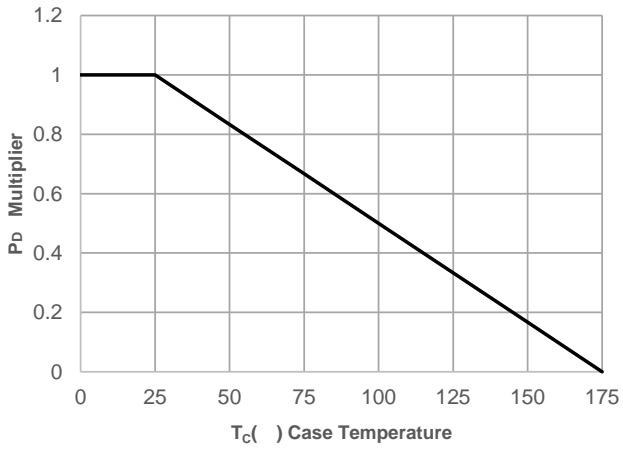
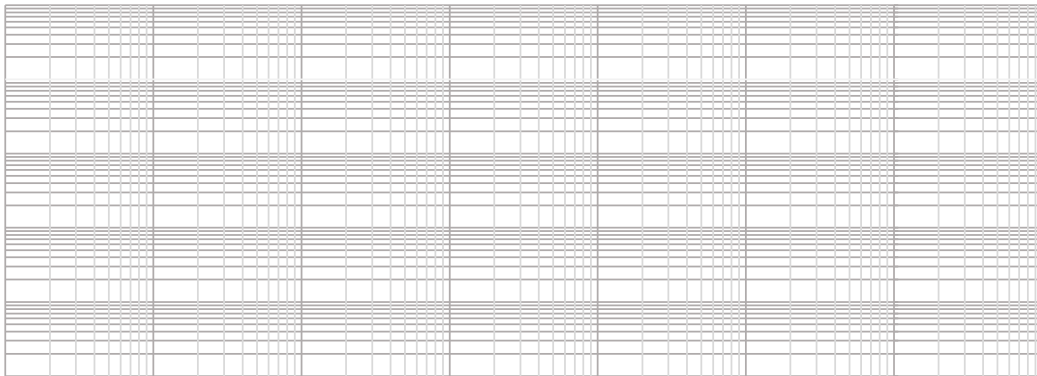
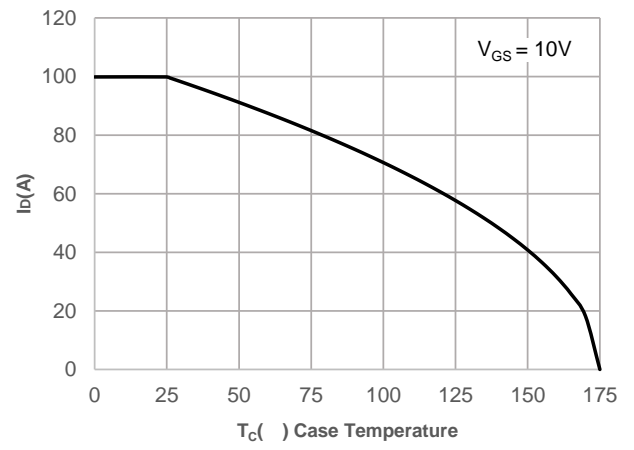


Figure 2: Current De-rating



## Typical Performance Characteristics

Figure 5: Output Characteristics

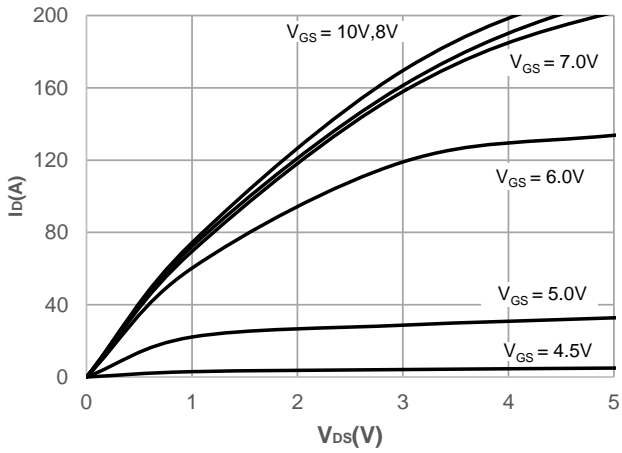


Figure 6: Typical Transfer Characteristics

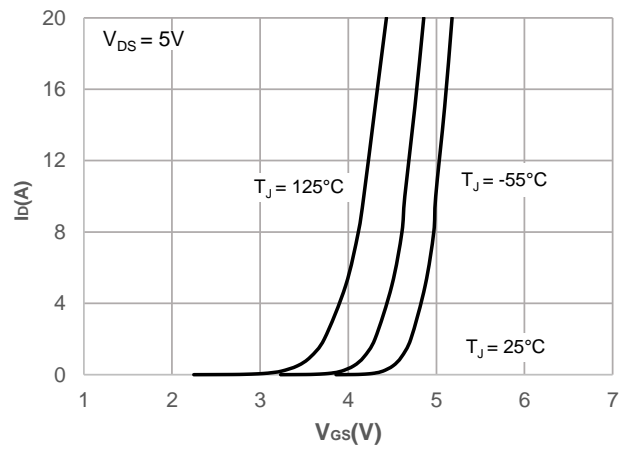


Figure 7: On-resistance vs. Drain Current

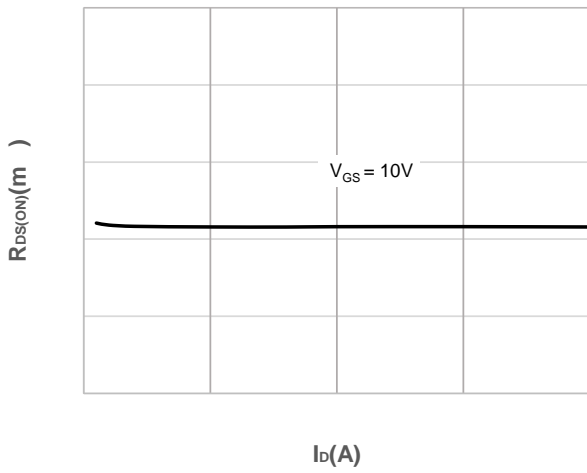


Figure 8: Body Diode Characteristics

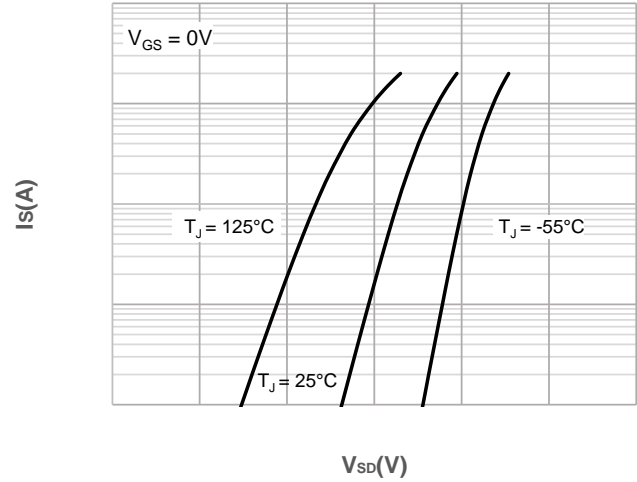


Figure 9: Gate Charge Characteristics

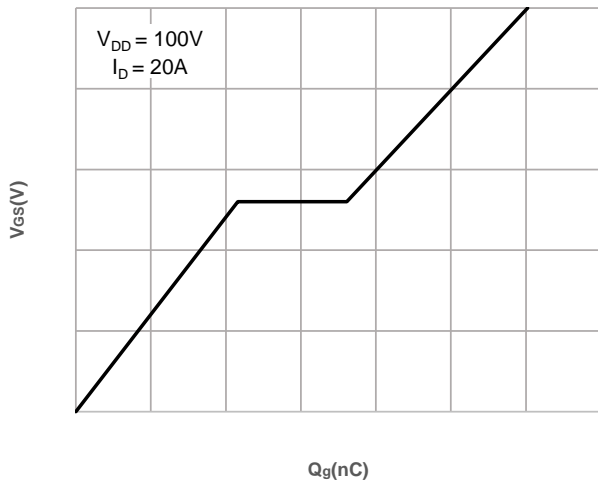
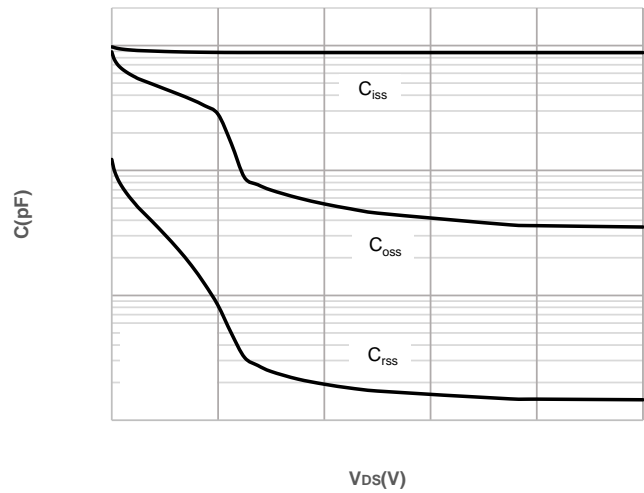


Figure 10: Capacitance Characteristics



## **Typical Performance Characteristics**

### Test Circuit



Figure 1: Gate Charge Test Circuit & Waveform

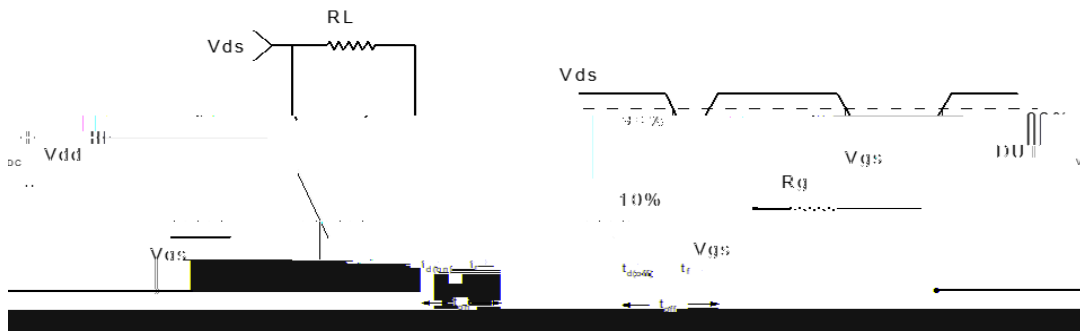


Figure 2: Resistive Switching Test Circuit & Waveform

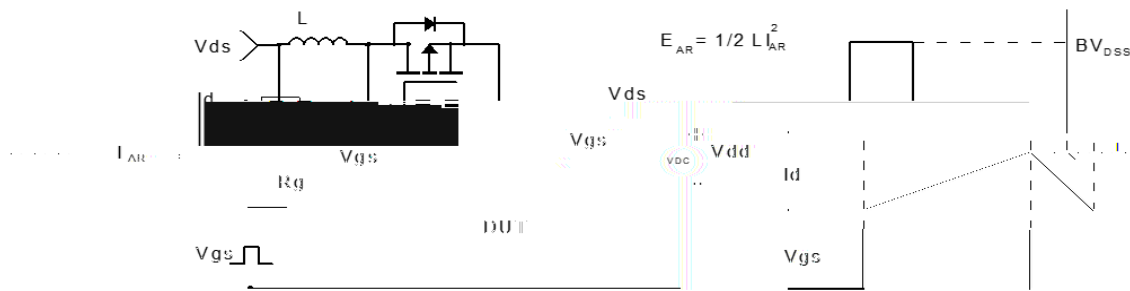


Figure 3: Unclamped Inductive Switching Test Circuit & Waveform

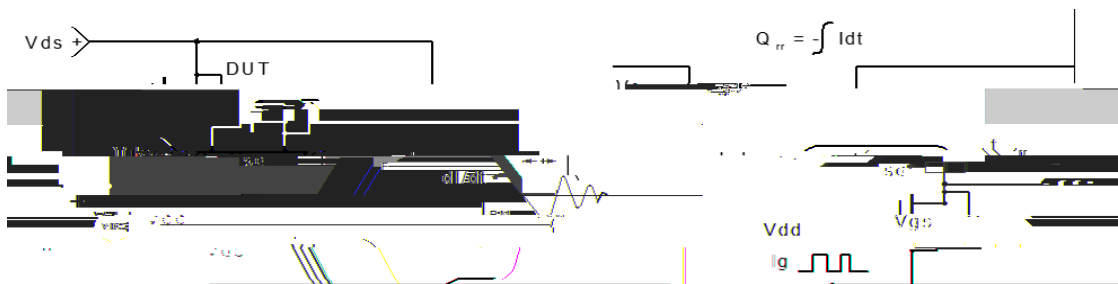


Figure 4: Diode Recovery Test Circuit & Waveform



## Package Mechanical Data(TO-220-3L)

Information furnished in this document is believed to be accurate and reliable.  
However, Jiangsu