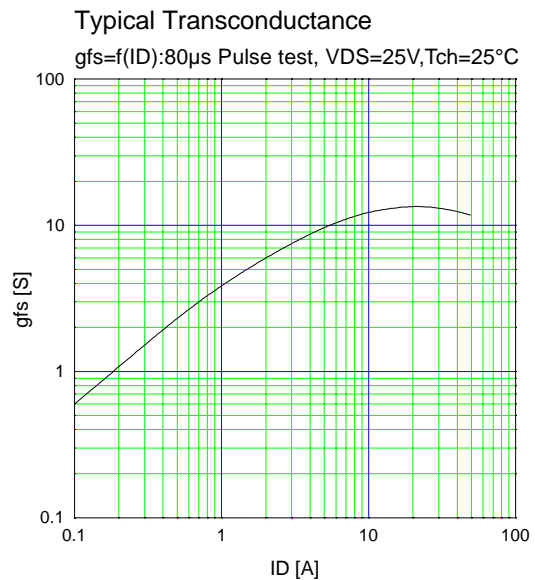
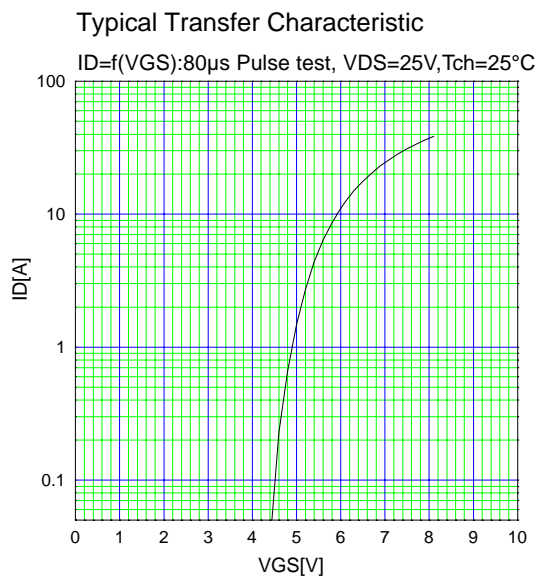
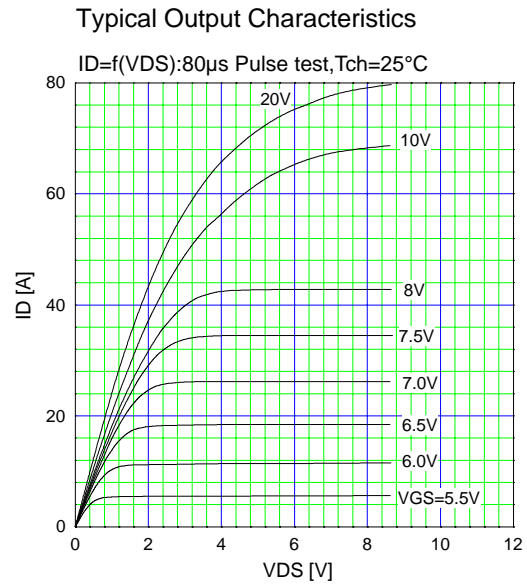
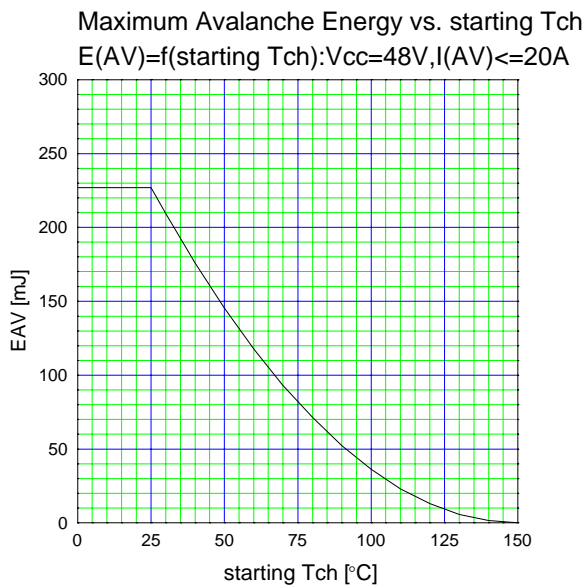
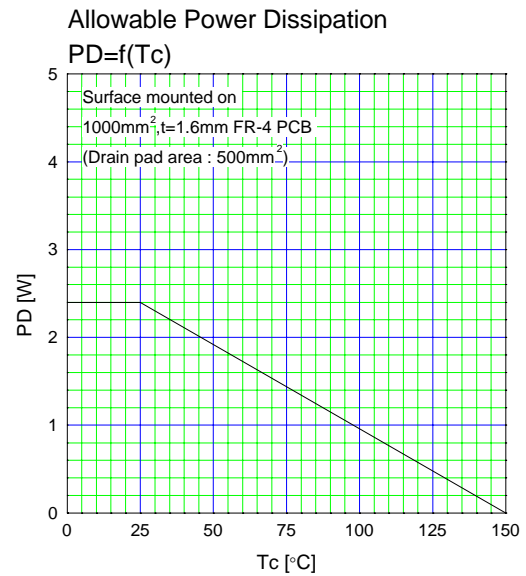
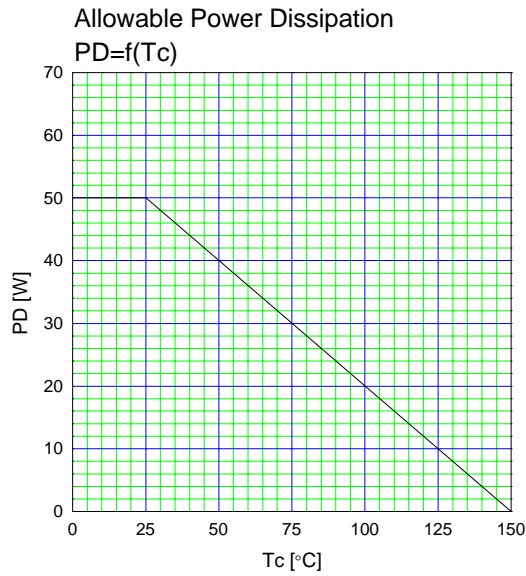
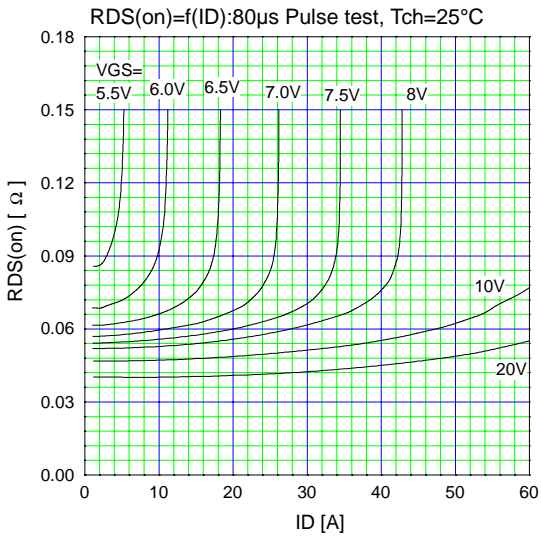




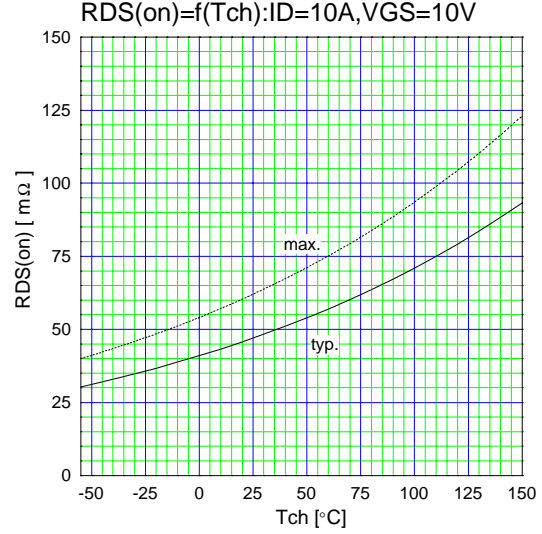
## Characteristics



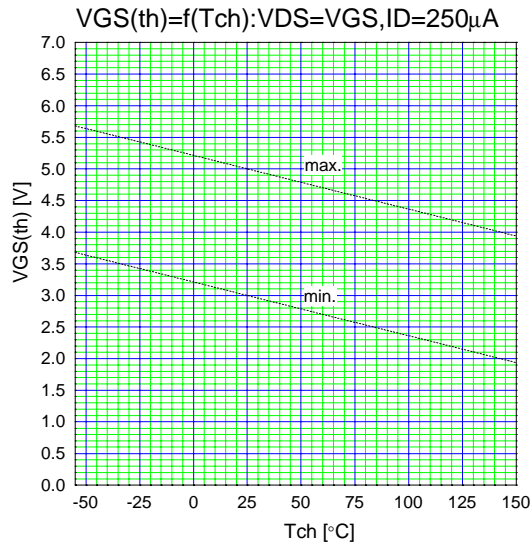
Typical Drain-Source on-state Resistance



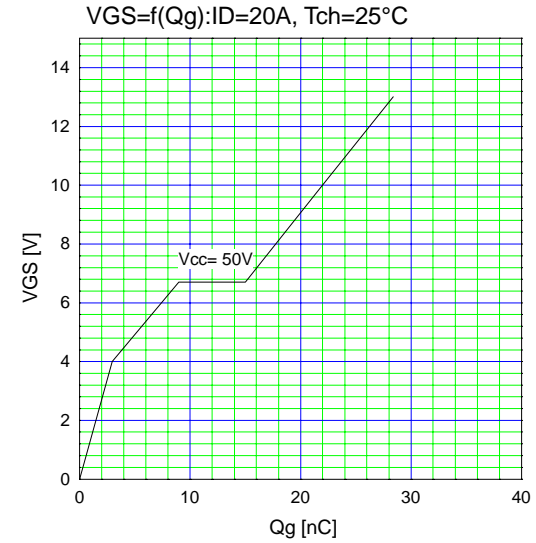
Drain-Source On-state Resistance



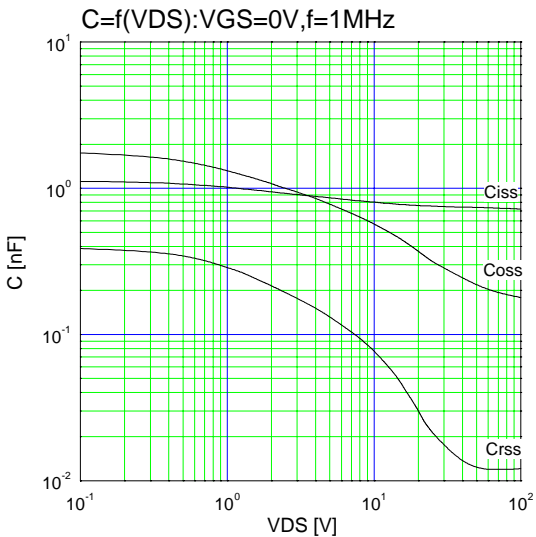
Gate Threshold Voltage vs.  $T_{ch}$



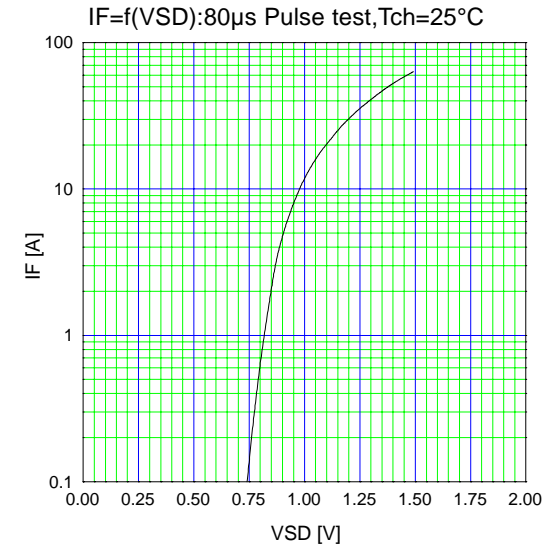
Typical Gate Charge Characteristics



Typical Capacitance

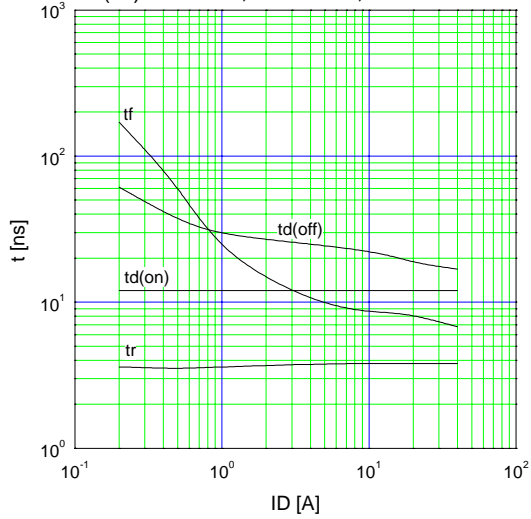


Typical Forward Characteristics of Reverse Diode



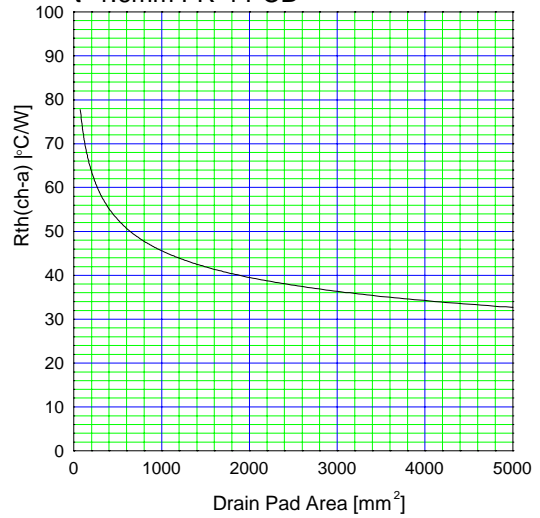
Typical Switching Characteristics vs. ID

$t=f(ID): V_{cc}=48V, V_{GS}=10V, R_G=10\Omega$



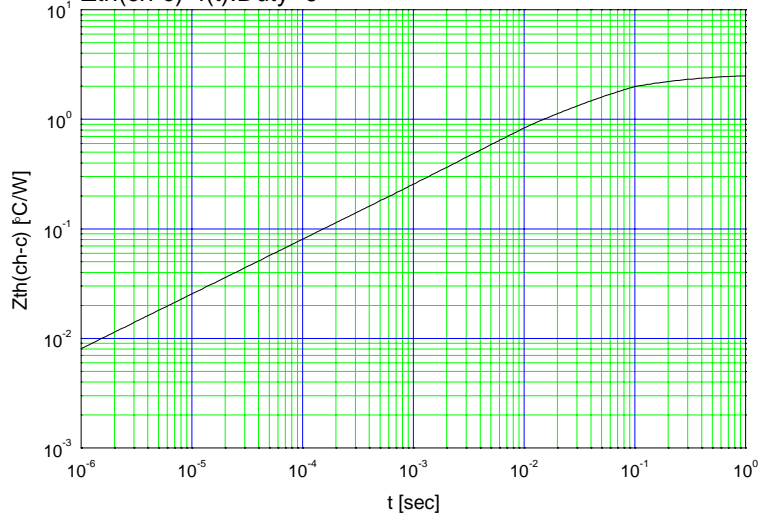
Thermal Resistance vs. Drain Pad area

$t=1.6mm$  FR-4 PCB



Transient Thermal Impedance

$Z_{th}(ch-c)=f(t): Duty=0$



Maximum Avalanche Current Pulsewidth

$I_{AV}=f(t_{AV}): starting T_{ch}=25^\circ C, V_{cc}=48V$

