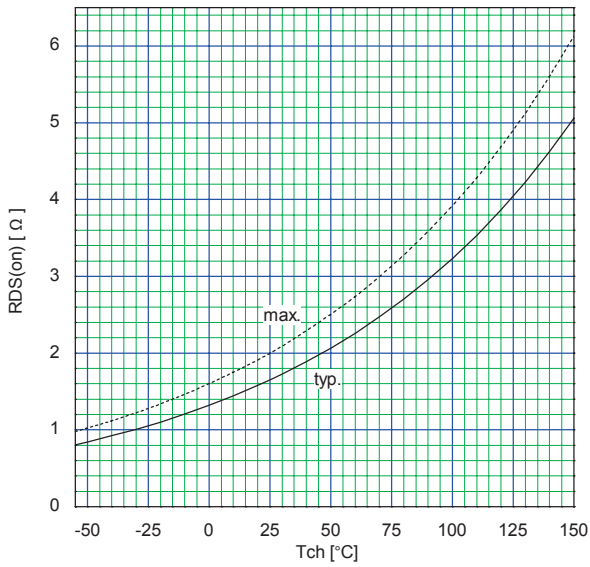
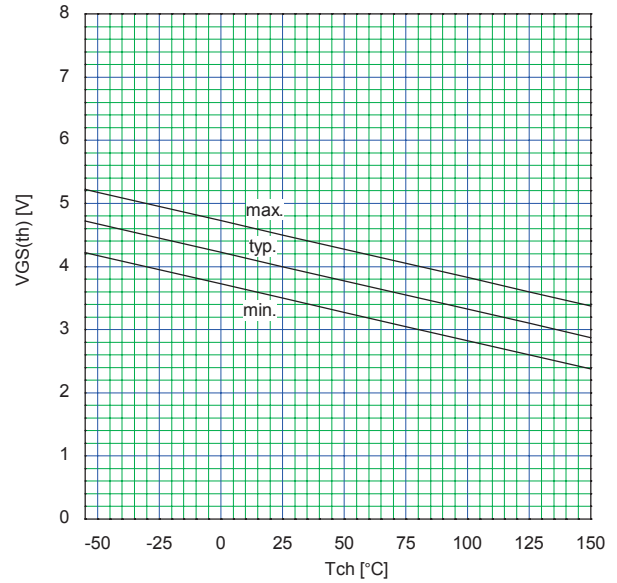


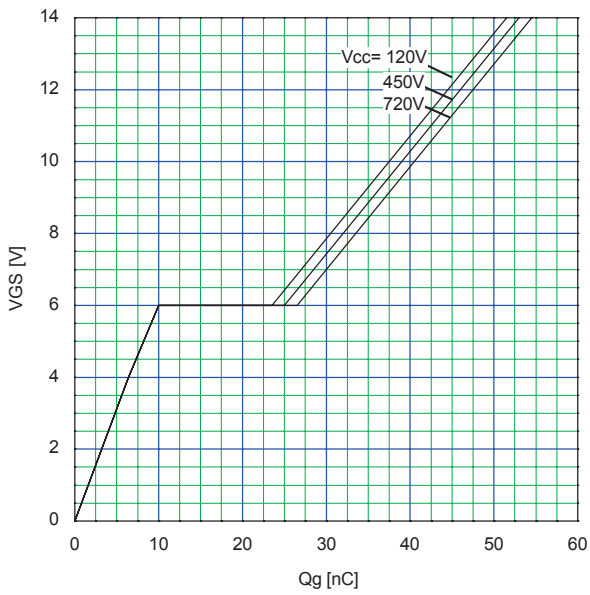
Drain-Source On-state Resistance  
 $R_{DS(on)} = f(T_{ch}) : I_D = 3.5A, V_{GS} = 10V$



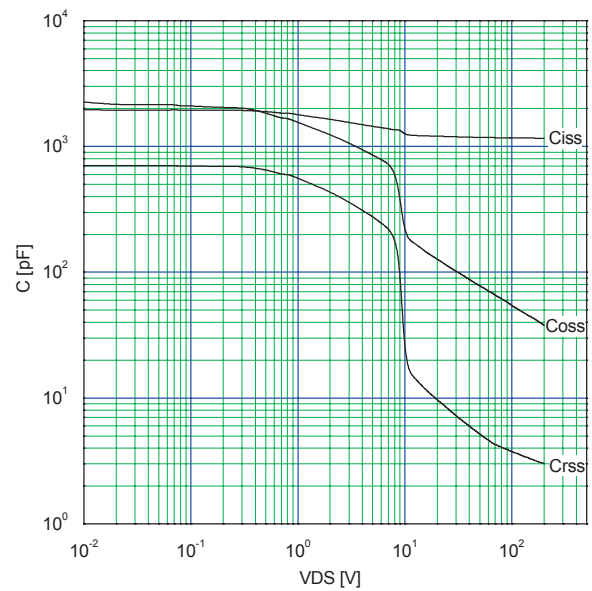
Gate Threshold Voltage vs. T<sub>ch</sub>  
 $V_{GS(th)} = f(T_{ch}) : V_{DS} = V_{GS}, I_D = 250\mu A$



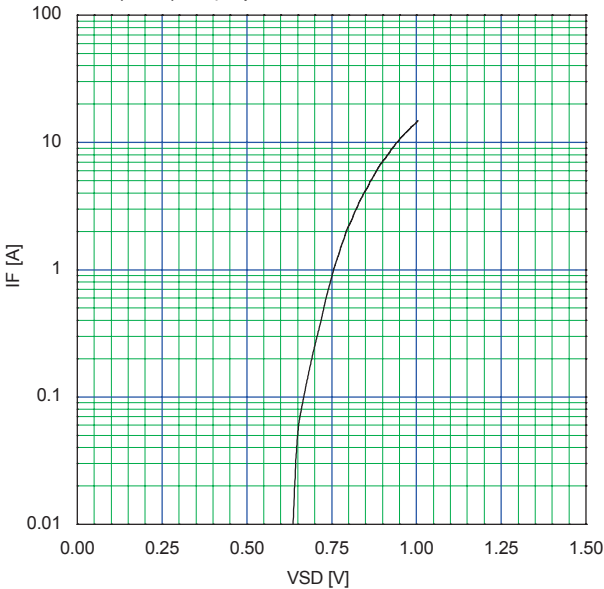
Typical Gate Charge Characteristics  
 $V_{GS} = f(Q_g) : I_D = 7A, T_{ch} = 25^\circ C$



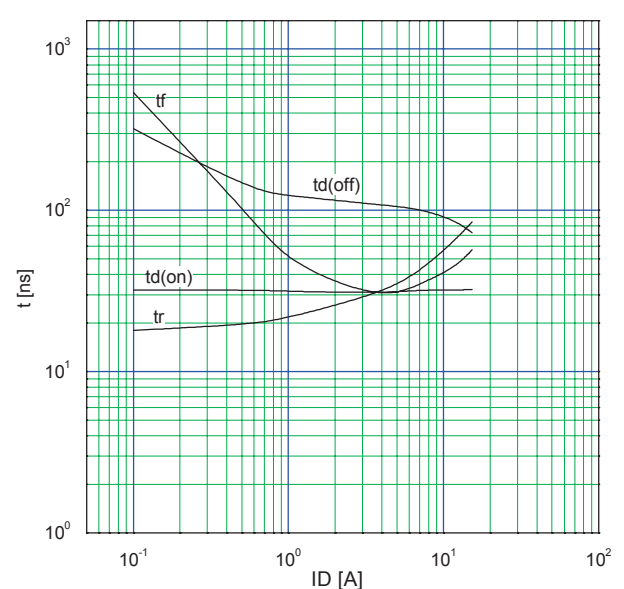
Typical Capacitance  
 $C = f(V_{DS}) : V_{GS} = 0V, f = 1MHz$



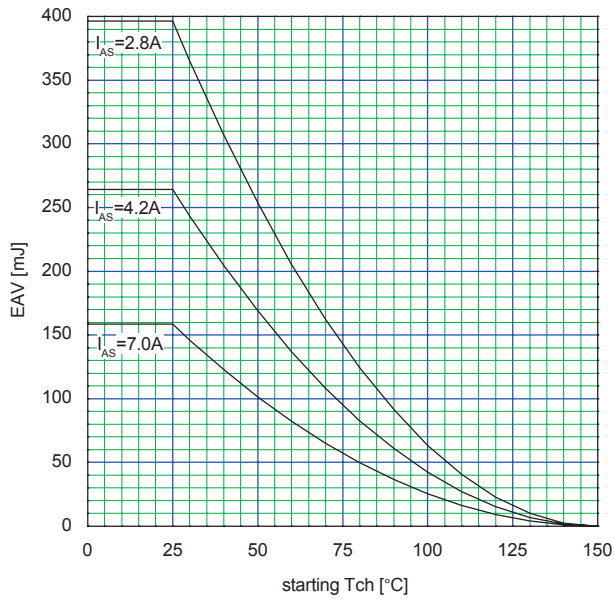
Typical Forward Characteristics of Reverse Diode  
 $I_F = f(V_{SD}) : 80\mu s \text{ pulse test}, T_{ch} = 25^\circ C$



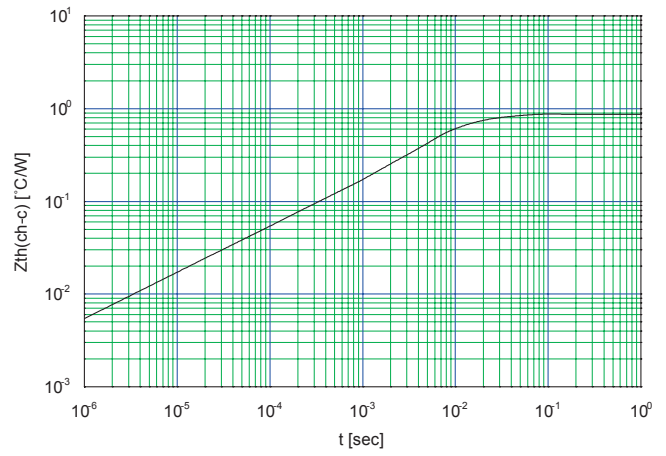
Typical Switching Characteristics vs. ID  
 $t = f(I_D) : V_{cc} = 600V, V_{GS} = 10V, R_G = 3\Omega$



Maximum Avalanche Energy vs. starting Tch  
 $E(AV)=f(\text{starting Tch}):V_{CC}=90V, I(AV)\leq 7A$



Maximum Transient Thermal Impedance  
 $Z_{th(ch-c)}=f(t):D=0$



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  - Machine tools                      • Audiovisual equipment                      • Electrical home appliances                      • Personal equipment                      • Industrial robots etc.
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  - Traffic-signal control equipment                      • Gas leakage detectors with an auto-shut-off feature
  - Emergency equipment for responding to disasters and anti-burglary devices                      • Safety devices
  - Medical equipment
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