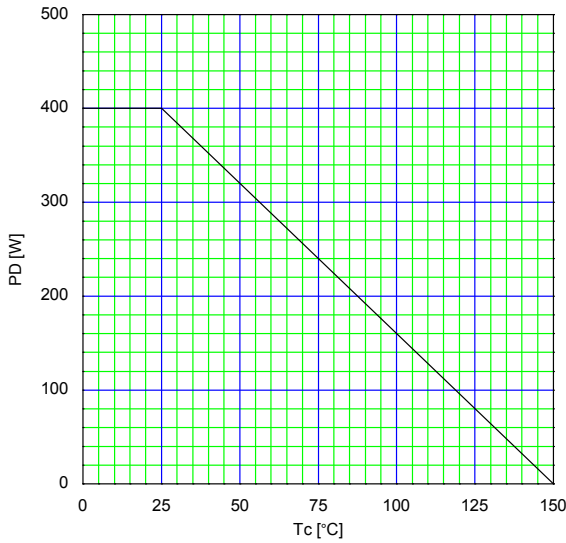


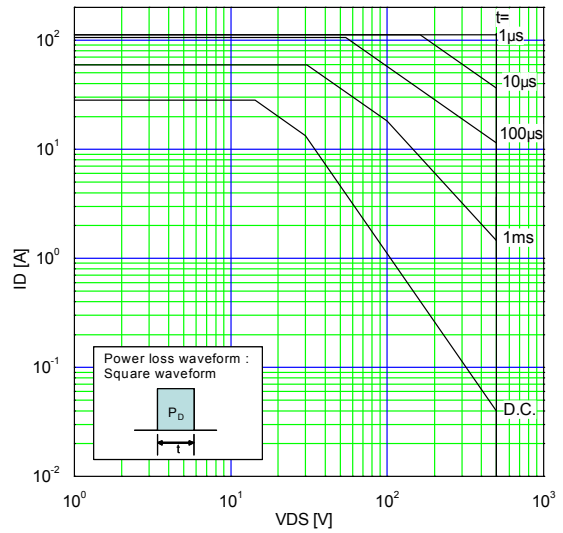


Allowable Power Dissipation  
 $PD=f(T_c)$

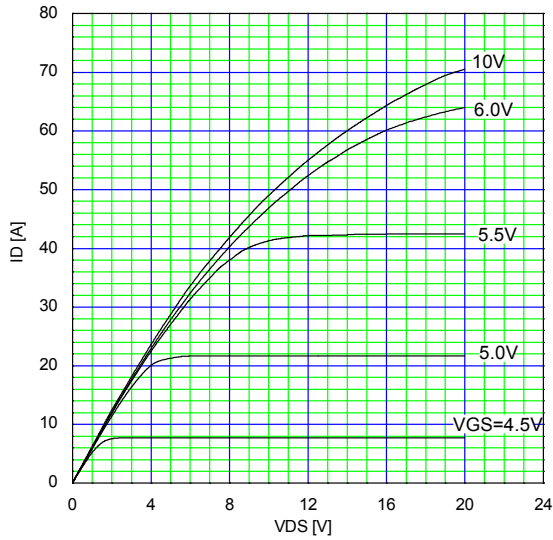


Safe Operating Area

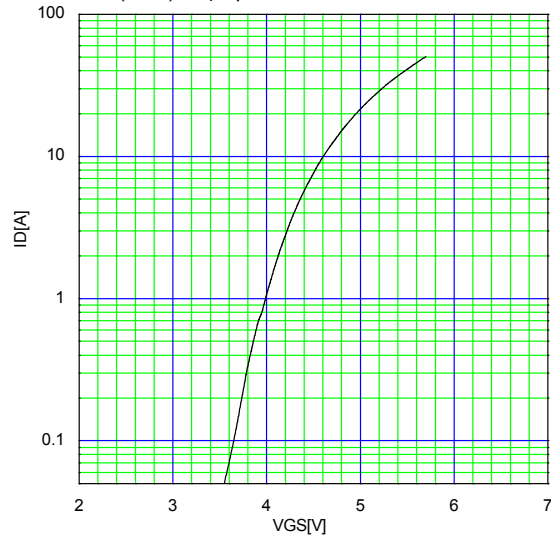
$I_D=f(V_{DS}): Duty=0(\text{Single pulse}), T_c=25^\circ\text{C}$



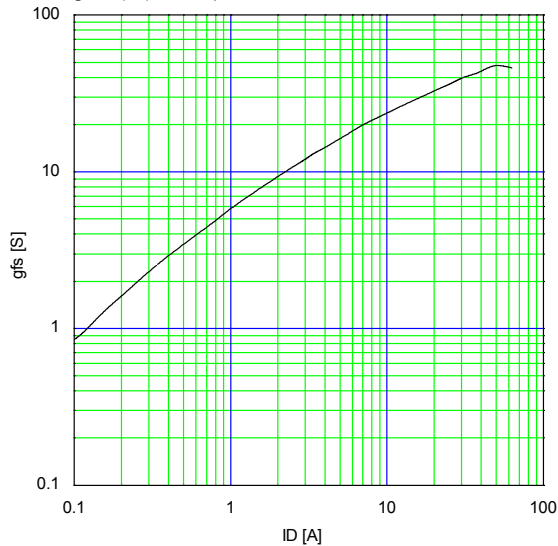
Typical Output Characteristics  
 $I_D=f(V_{DS}): 80\ \mu\text{s pulse test}, T_{ch}=25^\circ\text{C}$



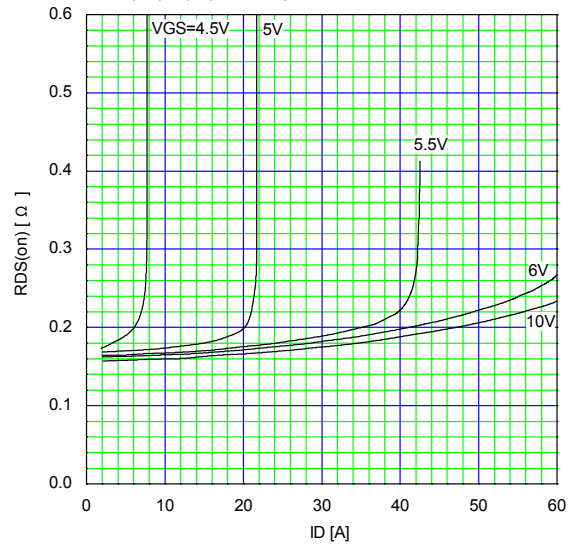
Typical Transfer Characteristic  
 $I_D=f(V_{GS}): 80\ \mu\text{s pulse test}, V_{DS}=25\text{V}, T_{ch}=25^\circ\text{C}$

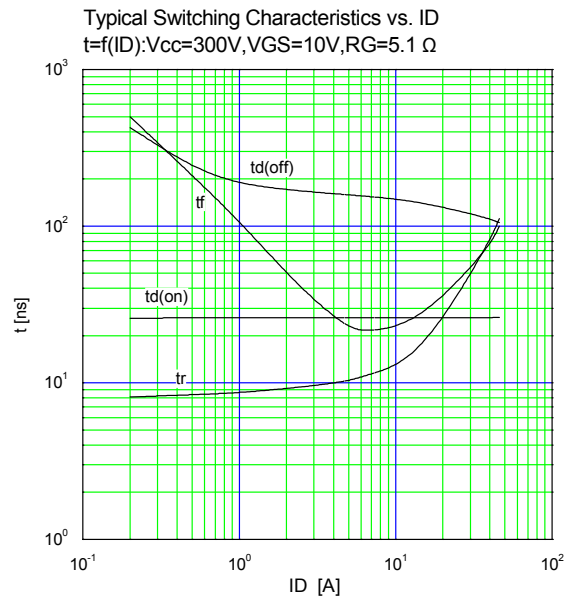
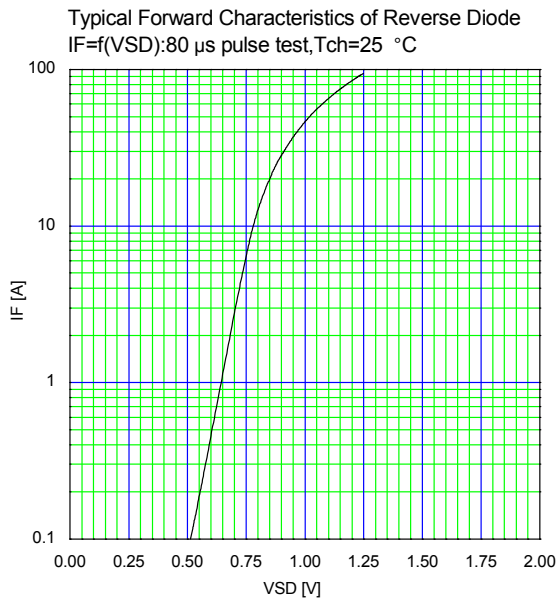
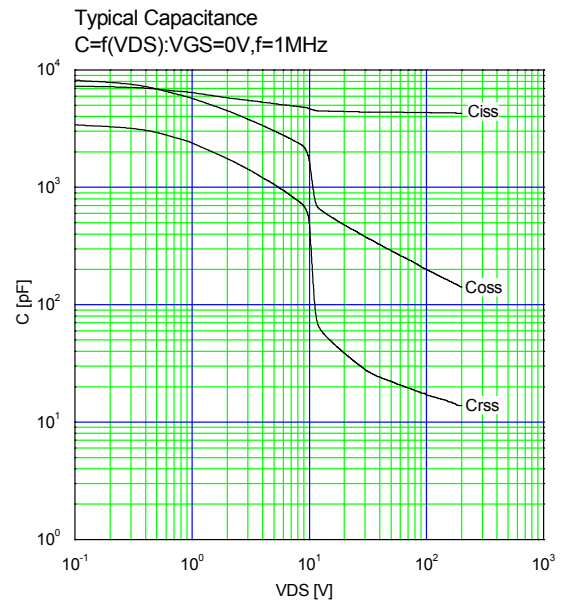
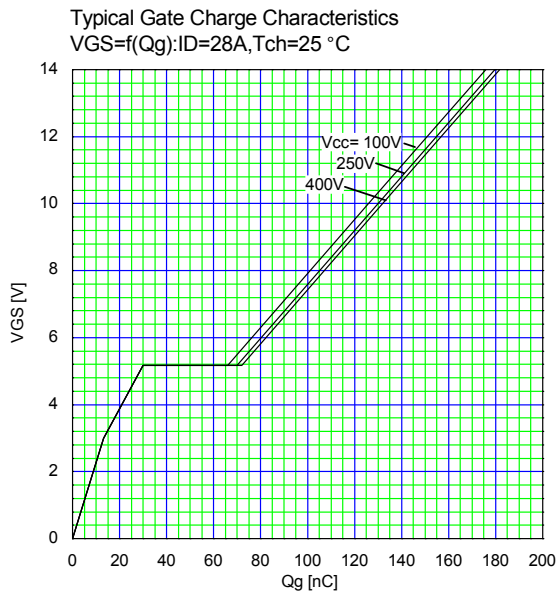
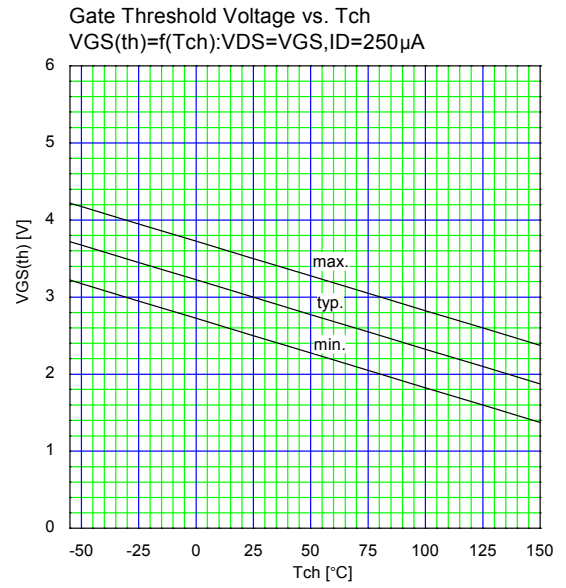
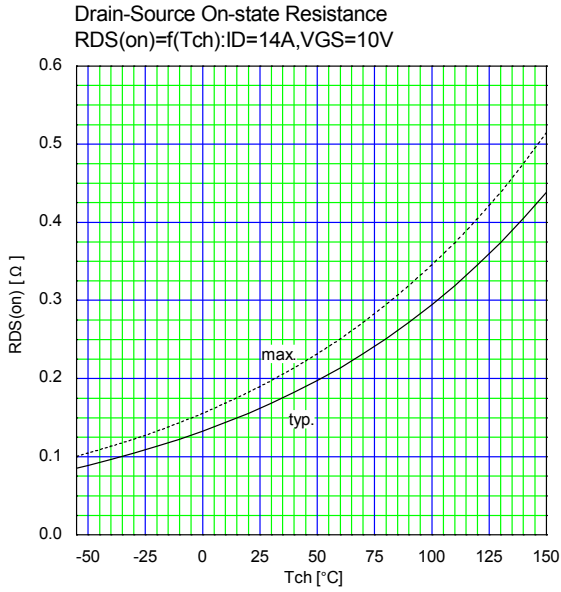


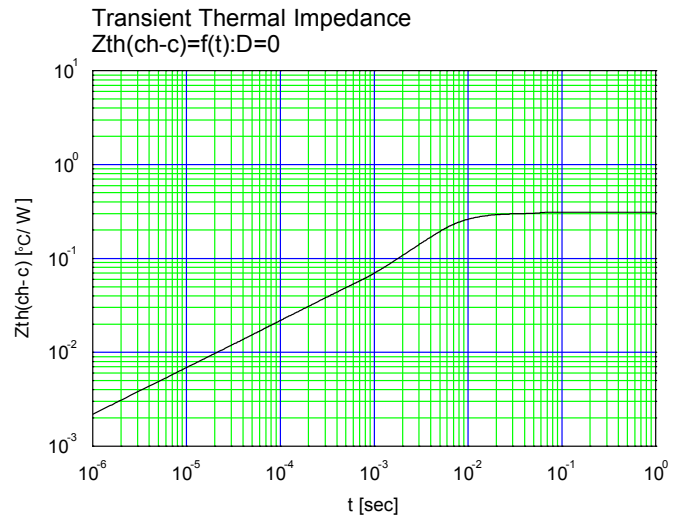
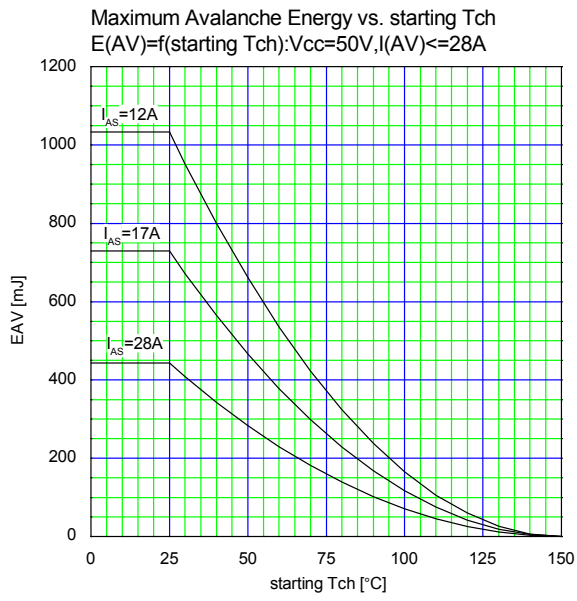
Typical Transconductance  
 $g_{fs}=f(I_D): 80\ \mu\text{s pulse test}, V_{DS}=25\text{V}, T_{ch}=25^\circ\text{C}$



Typical Drain-Source on-state Resistance  
 $R_{DS(on)}=f(I_D): 80\ \mu\text{s pulse test}, T_{ch}=25^\circ\text{C}$







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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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  - Submarine repeater equipment
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