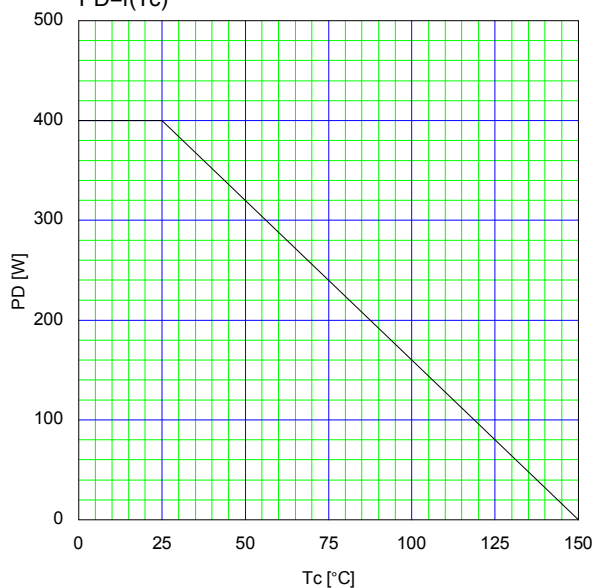


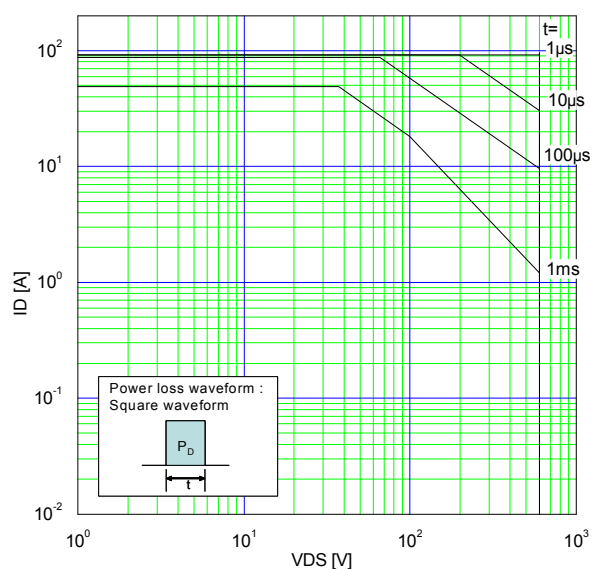
Allowable Power Dissipation

$$PD=f(T_c)$$



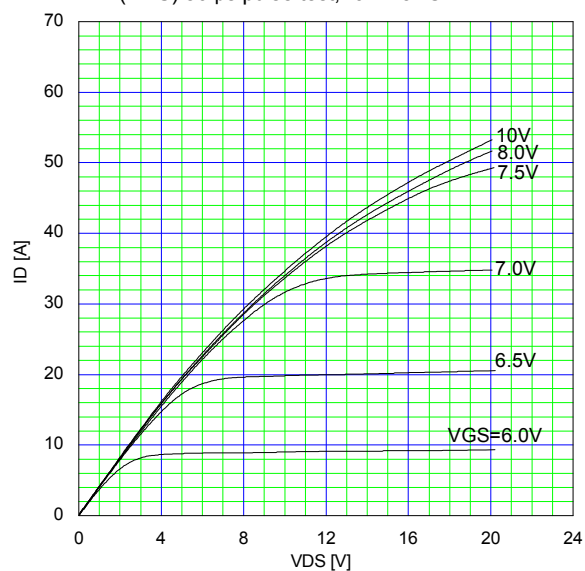
Safe Operating Area

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



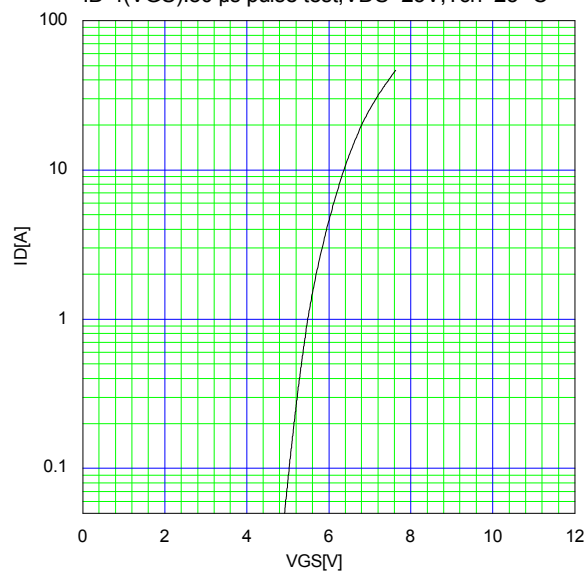
Typical Output Characteristics

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



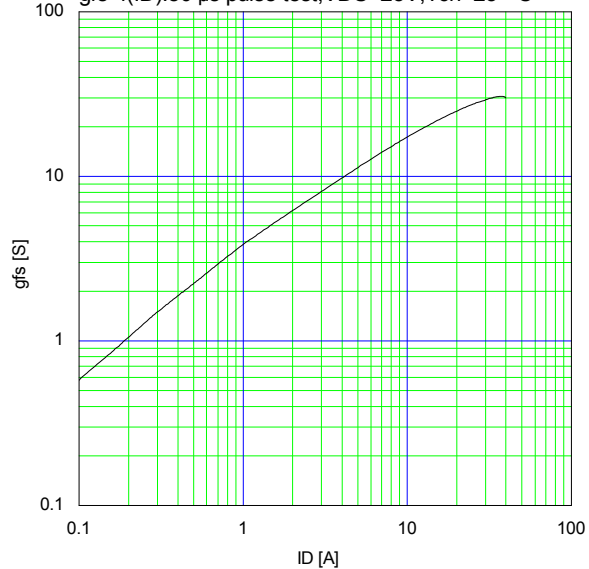
Typical Transfer Characteristic

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



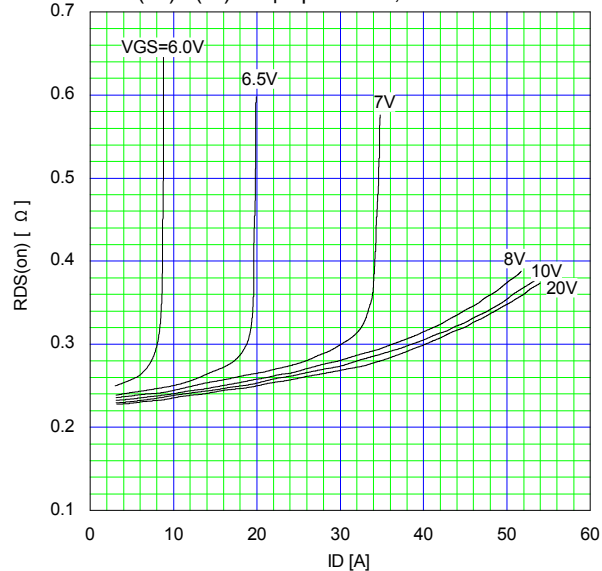
Typical Transconductance

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

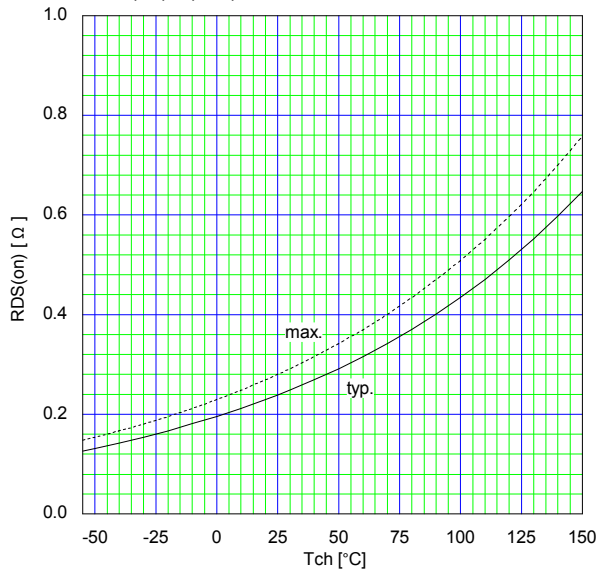


Typical Drain-Source on-state Resistance

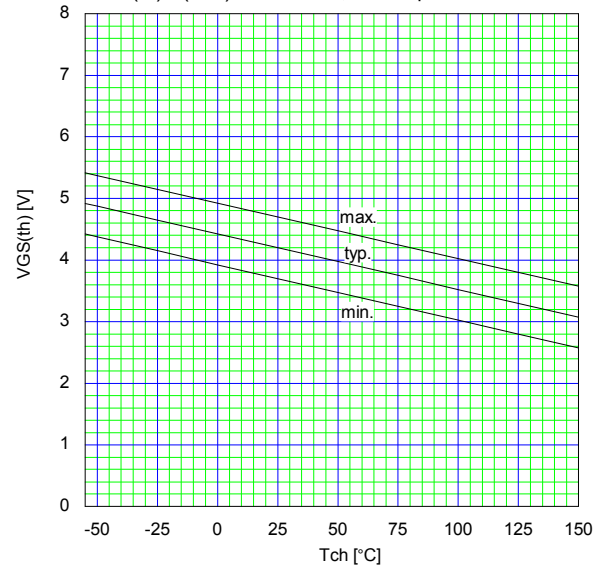
$$R_{DS(on)}=f(I_D): 80\text{ }\mu\text{s pulse test}, T_{ch}=25\text{ }^{\circ}\text{C}$$



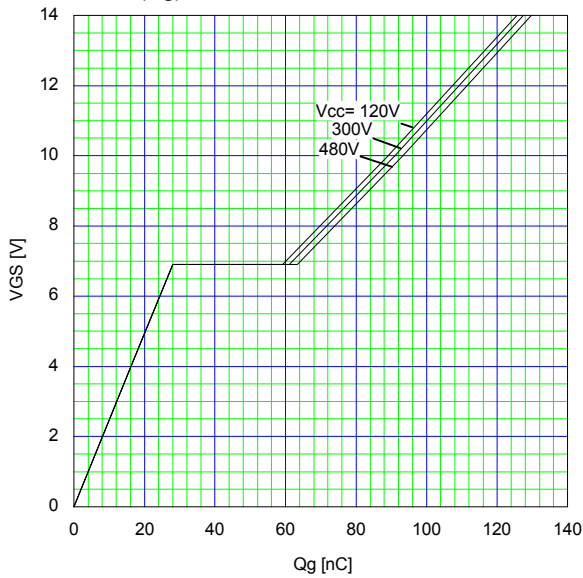
Drain-Source On-state Resistance
 $R_{DS(on)} = f(T_{ch}): I_D = 11.5A, V_{GS} = 10V$



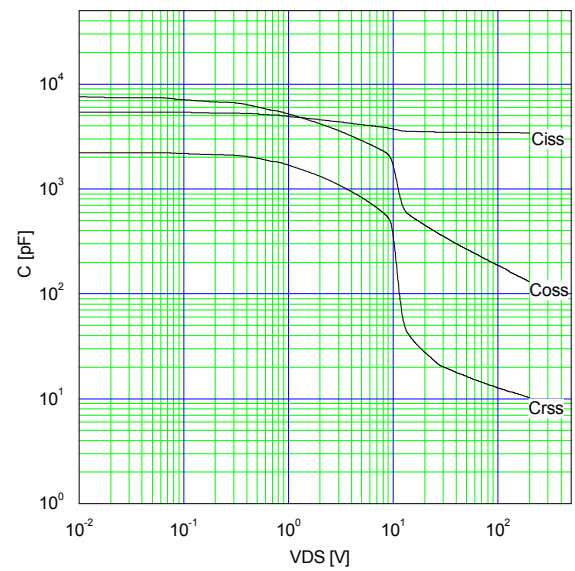
Gate Threshold Voltage vs. T_{ch}
 $V_{GS(th)} = f(T_{ch}): V_{DS} = V_{GS}, I_D = 250\mu A$



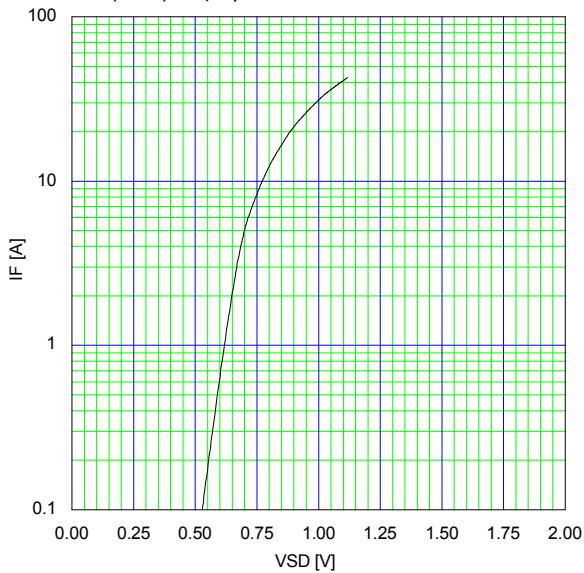
Typical Gate Charge Characteristics
 $V_{GS} = f(Q_g): I_D = 23A, T_{ch} = 25^\circ C$



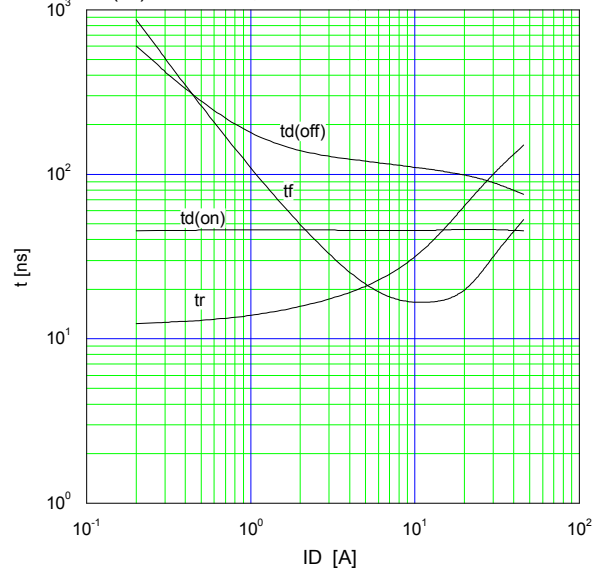
Typical Capacitance
 $C = f(V_{DS}): V_{GS} = 0V, f = 1MHz$

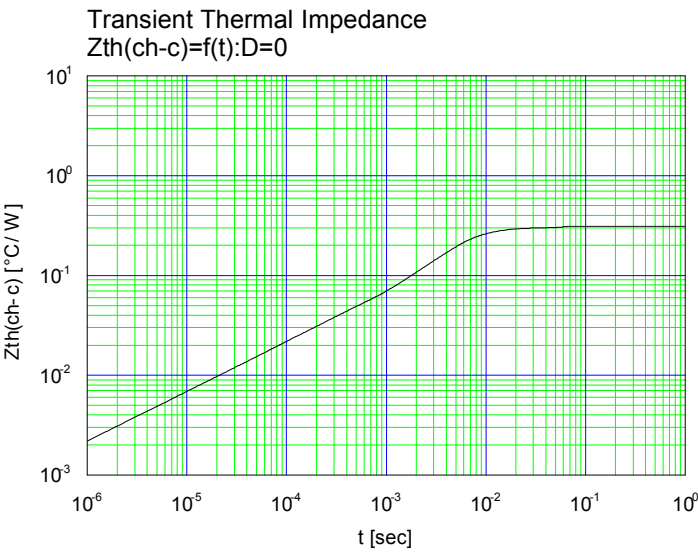
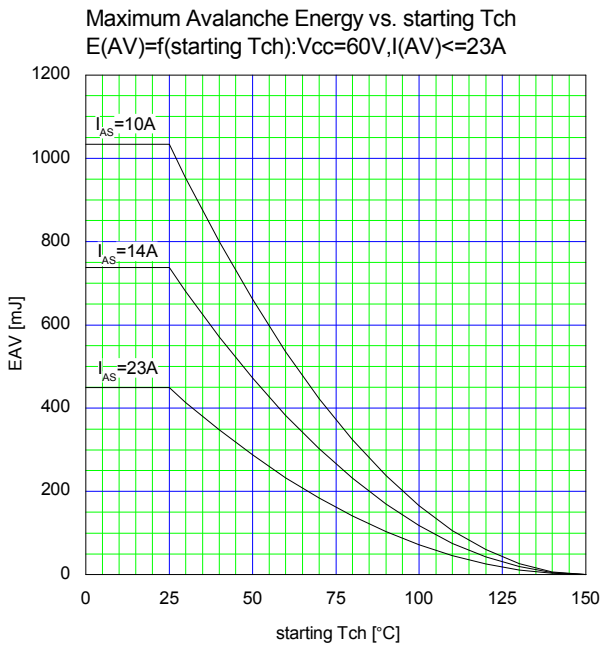


Typical Forward Characteristics of Reverse Diode
 $I_F = f(V_{SD}): 80\mu s$ pulse test, $T_{ch} = 25^\circ C$



Typical Switching Characteristics vs. I_D
 $t = f(I_D): V_{CC} = 300V, V_{GS} = 10V, R_G = 8.2\Omega$





WARNING

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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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