

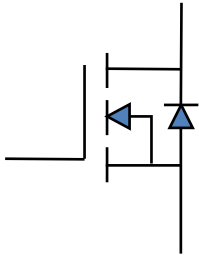
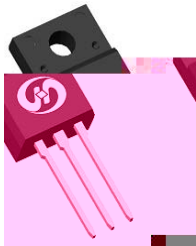


- ◇
- ◇
- ◇
- ◇
- ◇

Ω
Ω

- ◇
- ◇
- ◇
- ◇
- ◇

Package Marking



=25 (unless otherwise specified)

Gate to Source Voltage

Avalanche Energy, Single Pulse

=25 =25 mJ
=25 W

J

Thermal Resistance Junction-Case
Thermal Resistance Junction-Ambient

JC W
JA W



Electrical Characteristics at T =25 (unless otherwise specified)

Static Characteristics

Drain to Source Breakdown Voltage	(BR)DSS	μ	
		μ	
		=25	
		=100	μ
Gate to Source Leakage Current			
Drain to Source on Resistance			Ω
Transconductance	fs		Ω
Gate Resistance		Open, f=1MHz	Ω

Dynamic Characteristics

Input Capacitance			
Output Capacitance		=125V, f=1MHz	
Reverse Transfer Capacitance			

Gate to Source Charge

Turn off Delay Time	d(off)	Ω	
	f		

Reverse Diode Characteristics

Reverse Recovery Time			
Reverse Recovery Charge			

Fig 1. Typical Output Characteristics

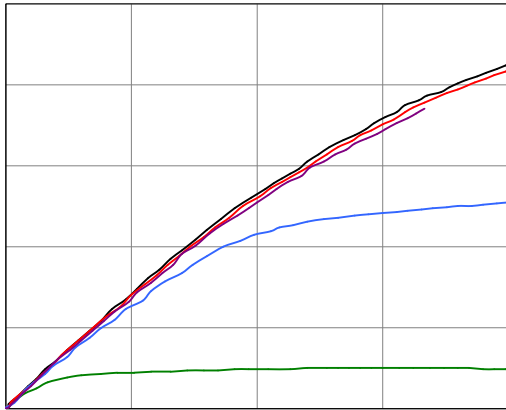


Figure 2. On-Resistance vs. Gate-Source Voltage

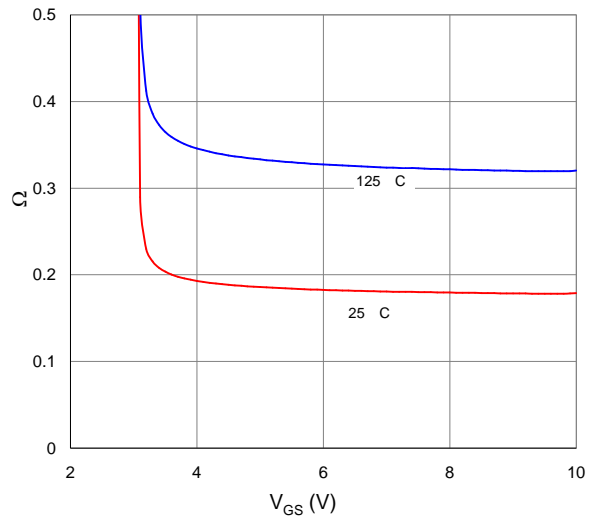


Figure 3. On-Resistance vs. Drain Current and Gate Voltage

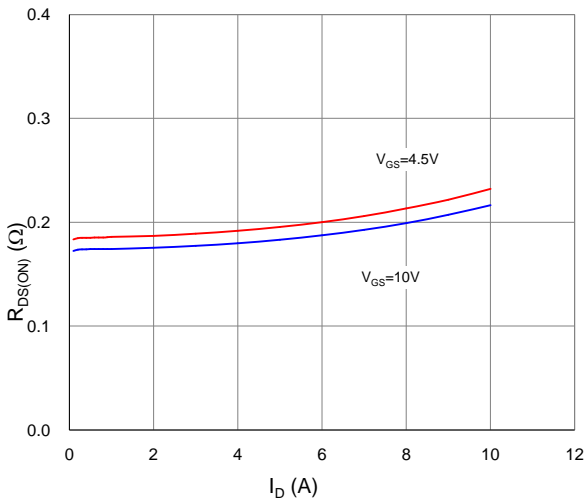


Figure 4. Normalized On-Resistance vs. Junction Temperature

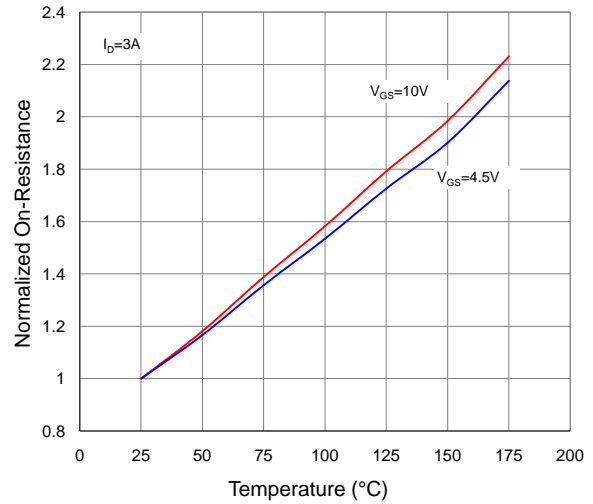


Figure 5. Typical Transfer Characteristics

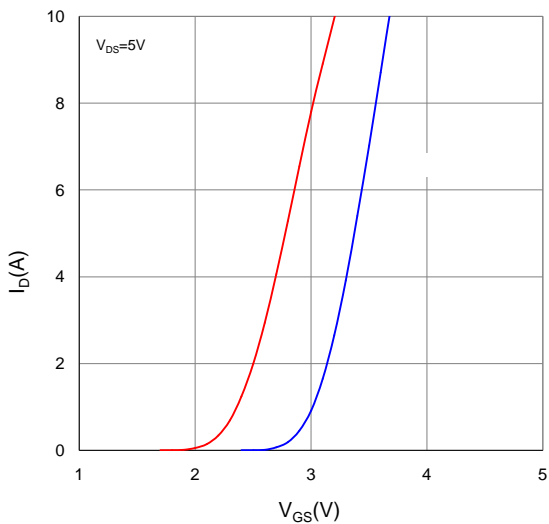


Figure 6. Typical Source-Drain Diode Forward Voltage

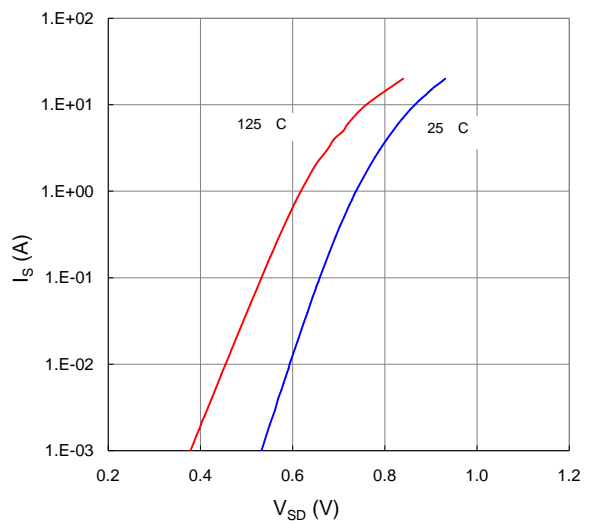




Figure 7. Typical Gate-Charge vs. Gate-to-Source Voltage

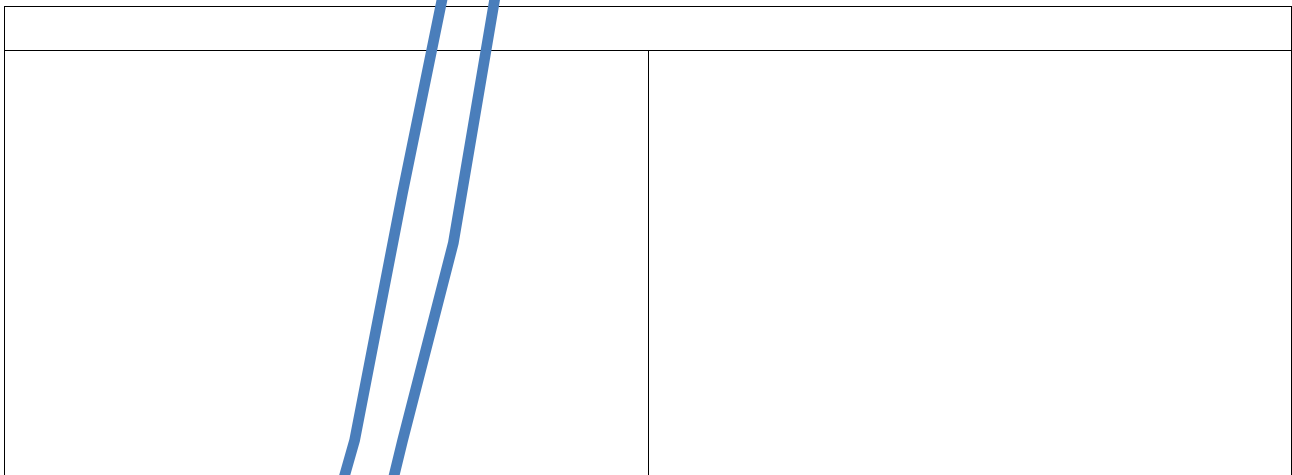
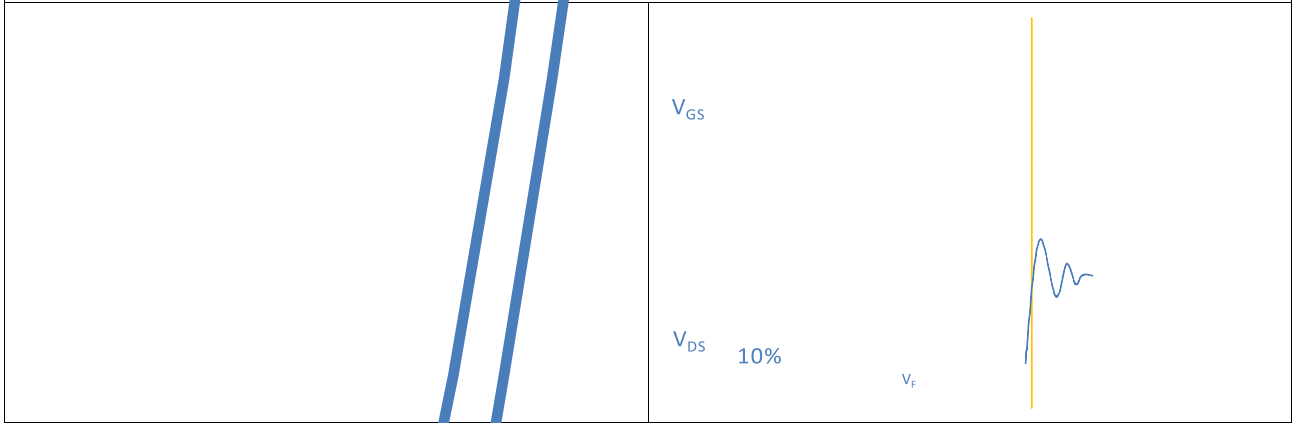
Figure 8. Typical Capacitance vs. Drain-to-Source Voltage

Figure 9. Maximum Safe Operating Area

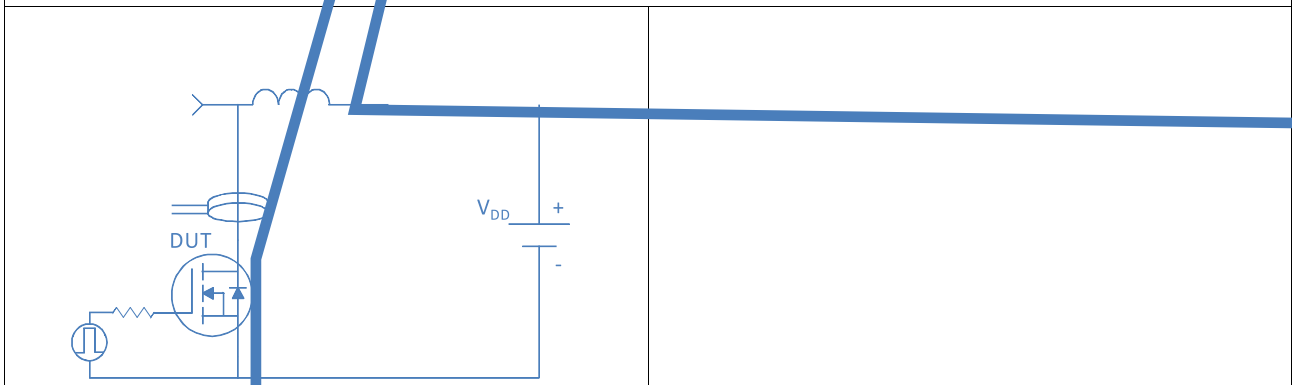
Figure 11. Normalized Maximum Transient Thermal Impedance, Junction-to-Case



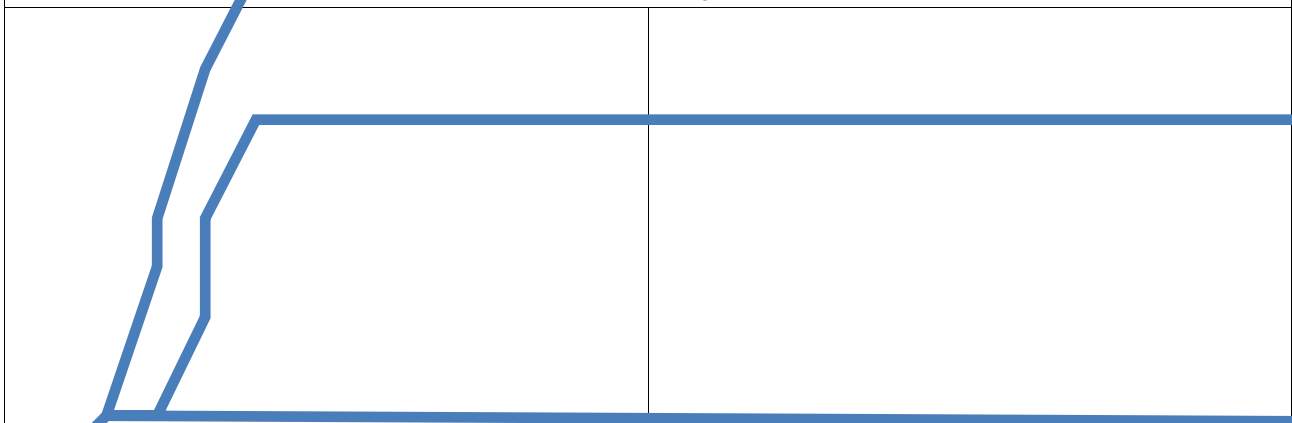
Inductive switching Test

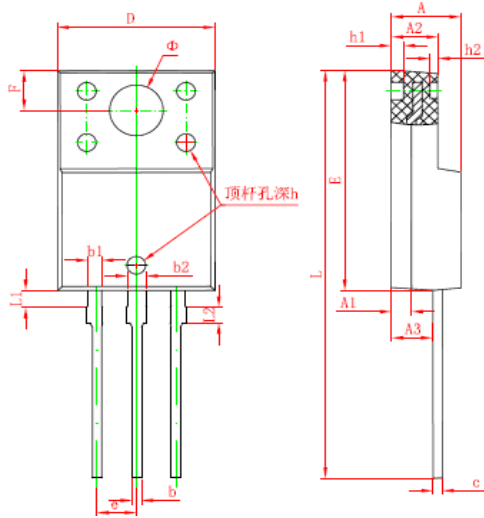


Uclamped Inductive Switching (UIS) Test



Diode Recovery Test





Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.350	4.650	0.169	0.185
A1	1.300 REF.		0.051 REF.	
A2	2.850	3.150	0.112	0.124
b	0.500	0.750	0.020	0.030
b1	0.800	1.050	0.031	0.041
b2	1.100	1.350	0.043	0.053
c	0.500	0.750	0.020	0.030
D	9.960	10.360	0.392	0.408
E	14.800	15.200	0.583	0.598
e	2.540 IYP.		0.100 IYP.	
F	2.700 REF.		0.106 REF.	
ϕ	3.500 REF.		0.138 REF.	
h	0.000	0.300	0.000	0.012
h1	0.800 REF.		0.031 REF.	
h2	0.500 REF.		0.020 REF.	
L	28.000	28.400	1.102	1.118
L1	1.100	1.300	0.043	0.051
L2	0.920	1.080	0.036	0.043