Electrical Characteristics (T_J = 25°C unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit
Off Characteristics				
$V_{(BR)DSS}$	60	-	-	V
I_{DSS}	-	-	1.0	μA
I_{GSS}	-	-	±100	nA
$V_{GS(th)}$				

Typical Performance Characteristics

Figure 1: Power De-rating

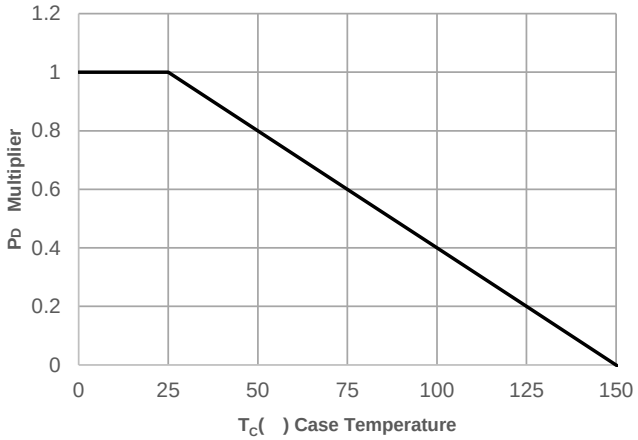


Figure 2: Current De-rating

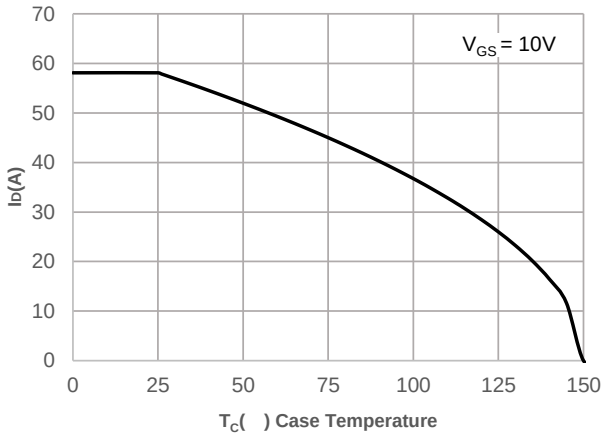
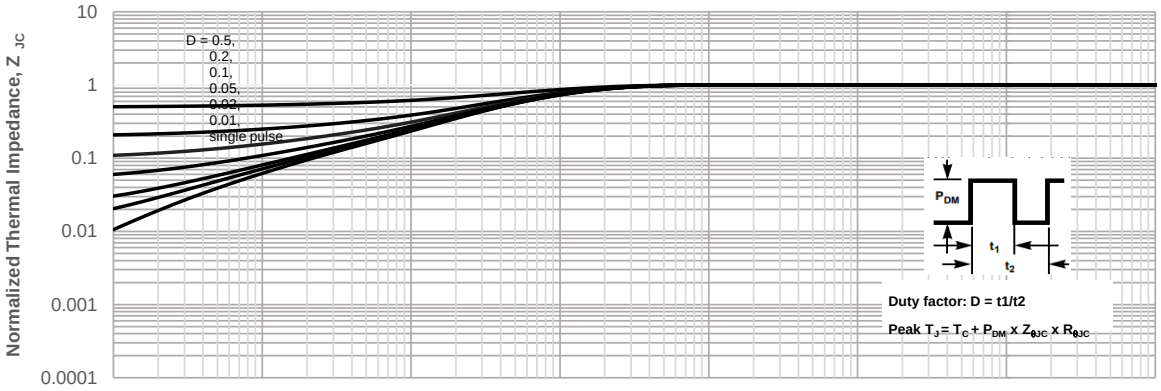
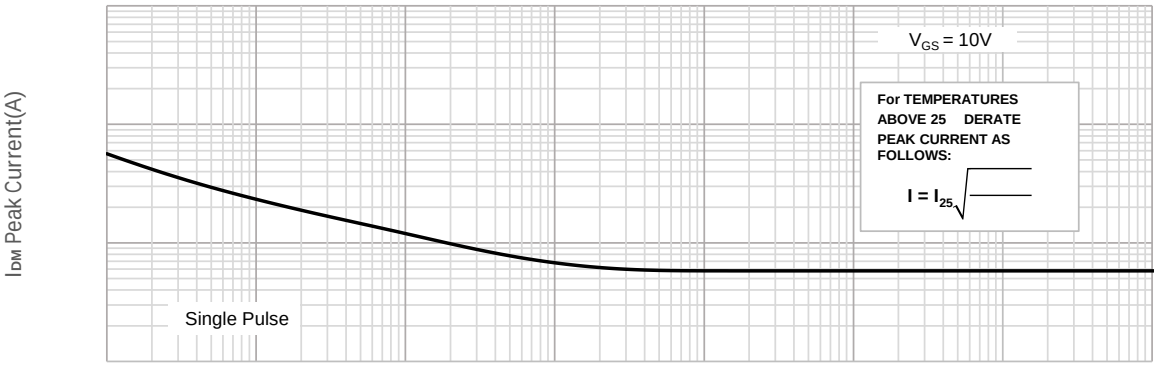


Figure 3: Normalized Maximum Transient Thermal Impedance



t, Rectangular Pulse Width (s)

Figure 4: Peak Current Capacity



t, Rectangular Pulse Width (s)

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Typical Performance Characteristics

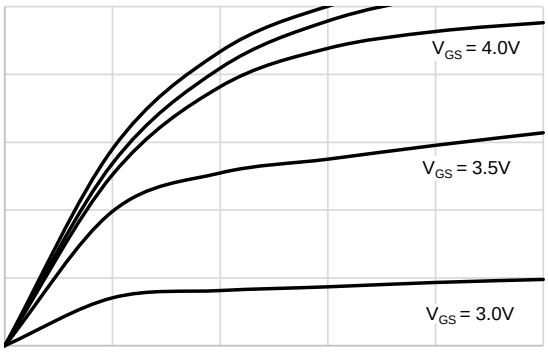


Figure 6: Typical Transfer Characteristics

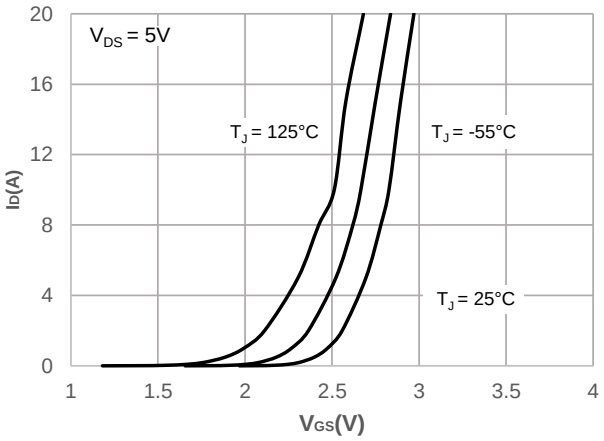


Figure 7: On-resistance vs. Drain Current

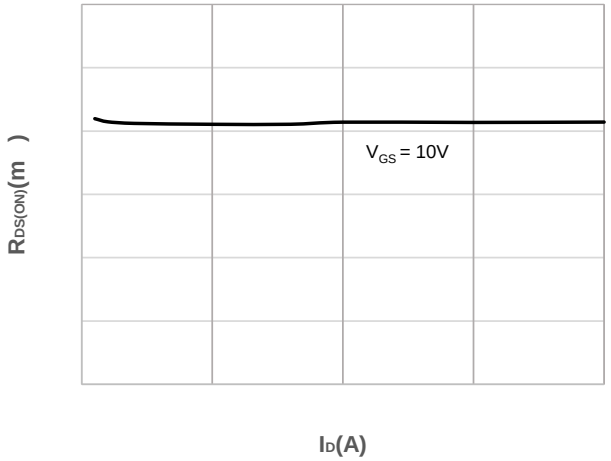


Figure 8: Body Diode Characteristics

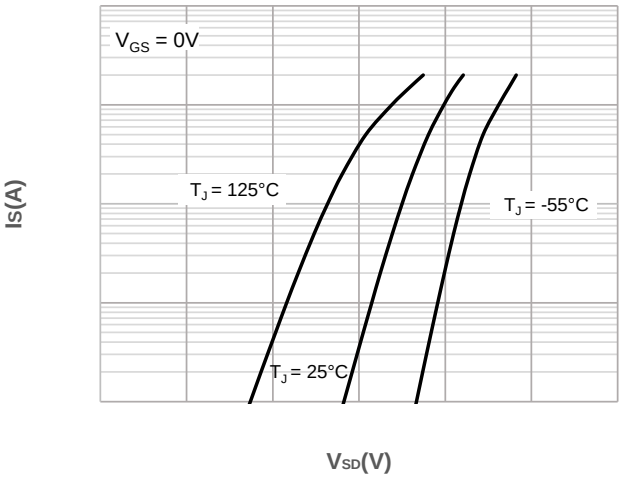
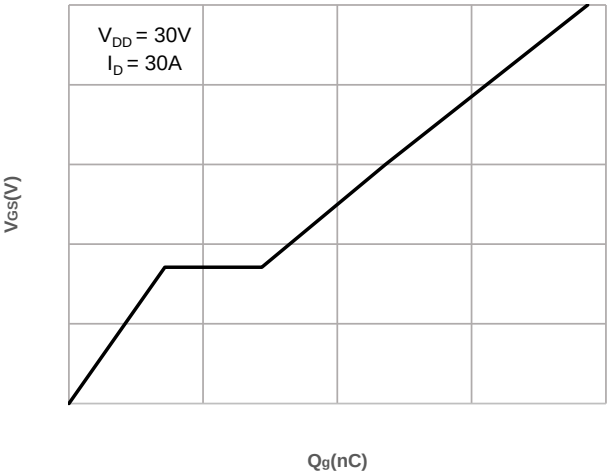
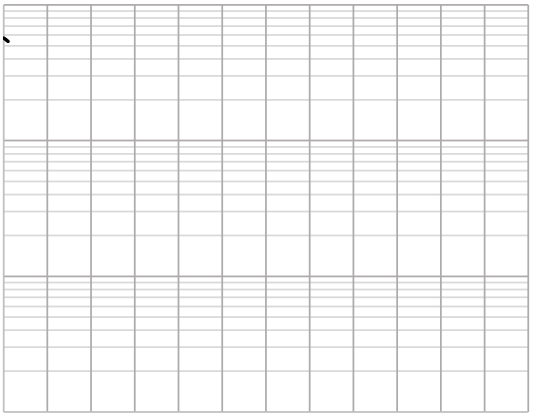


Figure 9: Gate Charge Characteristics





Typical Performance Characteristics

Figure 11: Normalized Breakdown voltage vs. Junction Temperature

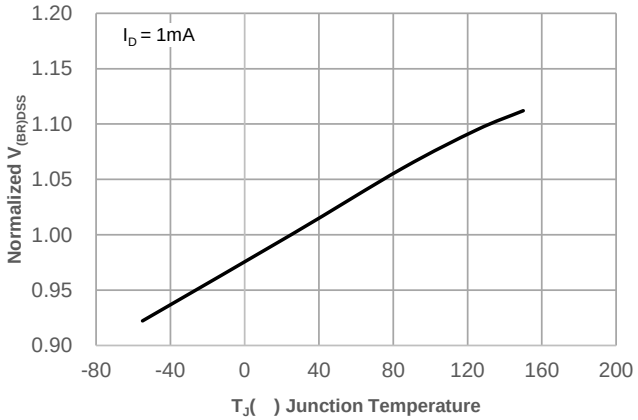


Figure 12: Normalized on Resistance vs. Junction Temperature

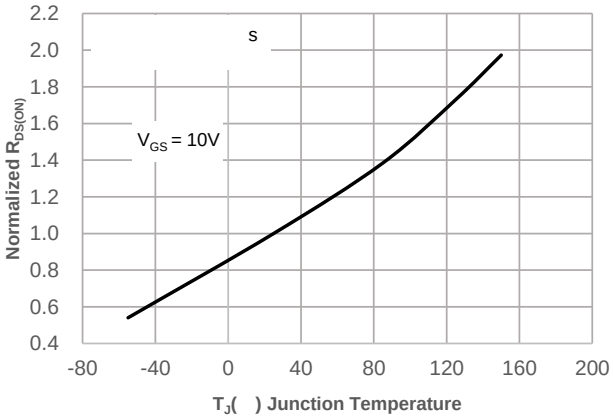
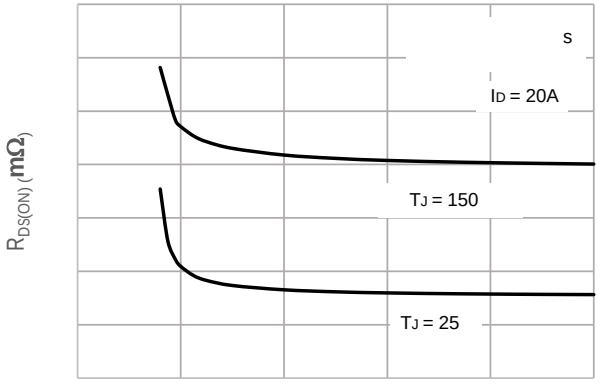
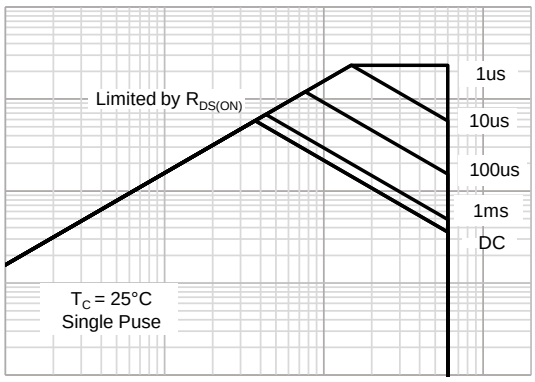


Figure 14: $R_{DS(ON)}$ vs. V_{GS}



V_{GS}(V)

Figure 15: Maximum Safe Operating Area



V_{DS}(V)

Test Circuit

Figure 1: Gate Charge Test Circuit & Waveform

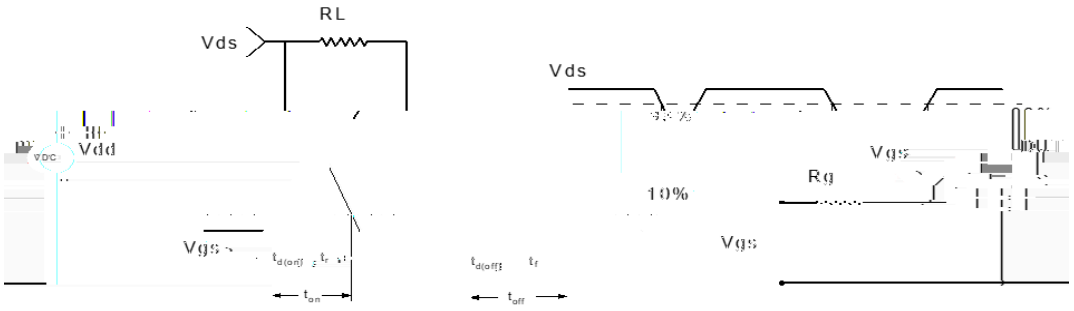


Figure 2: Resistive Switching Test Circuit & Waveform

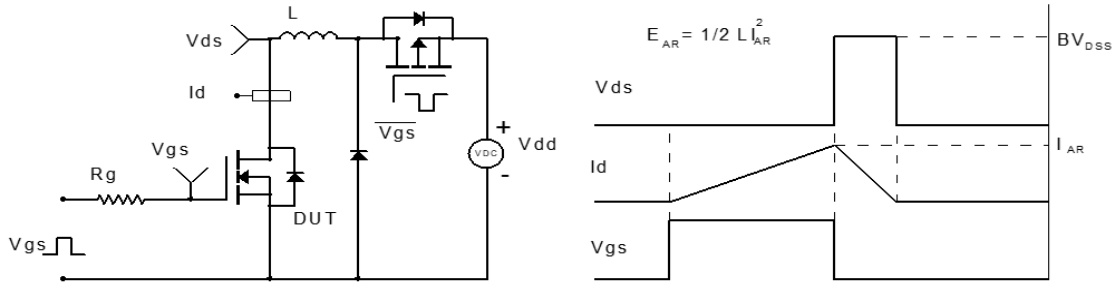


Figure 3: Unclamped Inductive Switching Test Circuit& Waveform

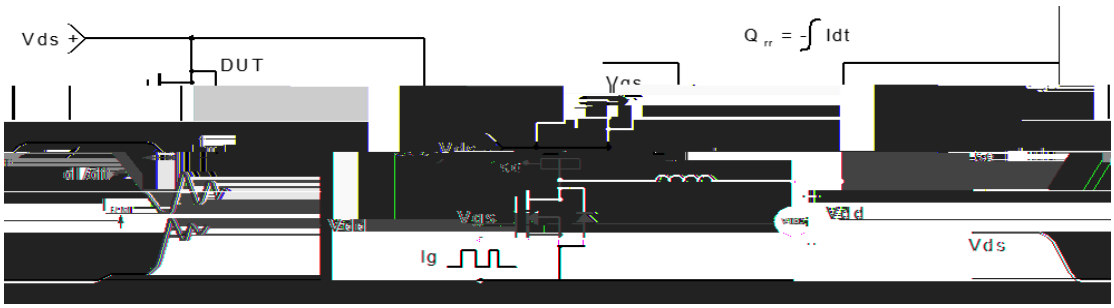


Figure 4: Diode Recovery Test Circuit & Waveform

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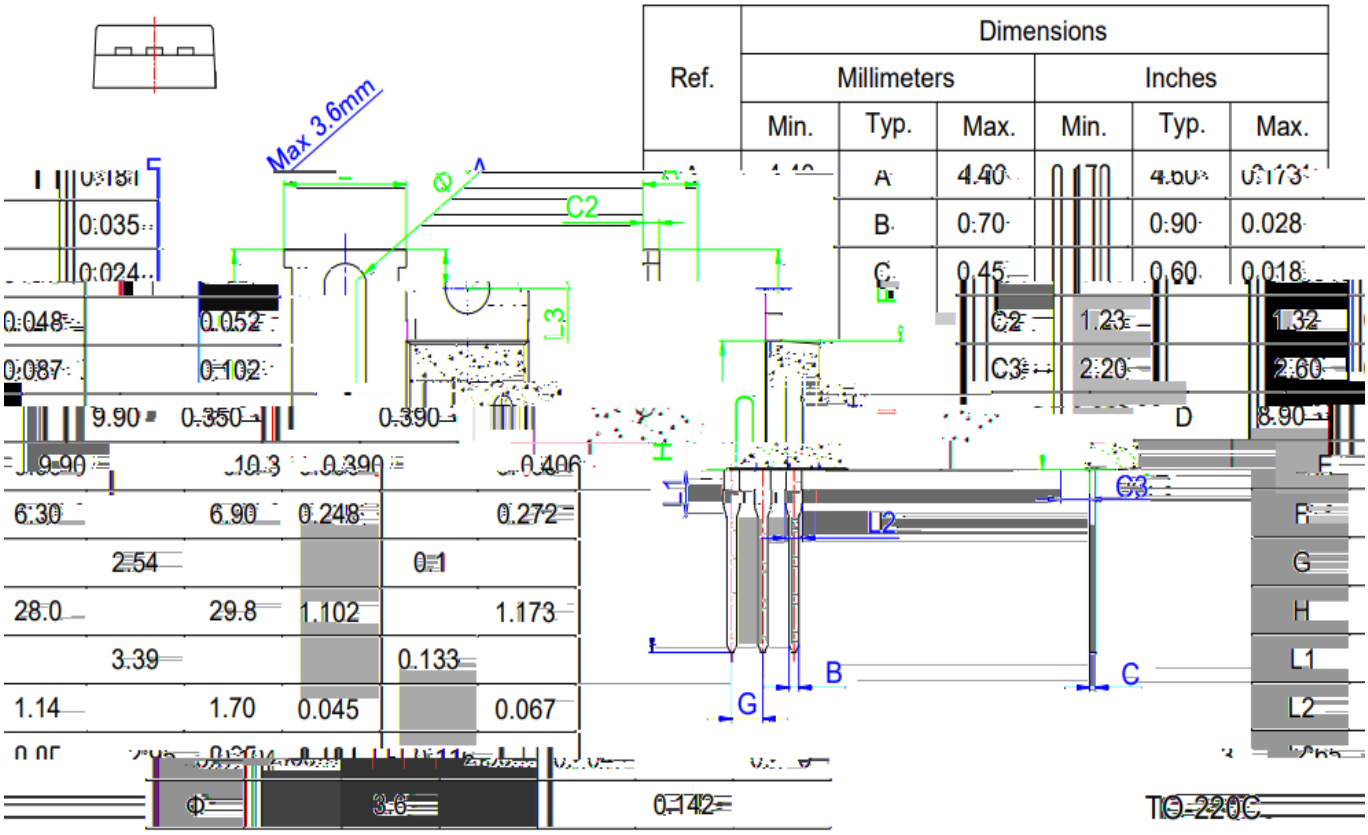
Package Mechanical Data(TO-220 -3L)



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A			4.40			0.173
B		0.70			0.90	0.028
C		0.45			0.60	0.018
C2	1.23					1.32
C3	2.20					2.60
D			8.90			
F						
G						
H						
L1						
L2						

	0.035					
	0.024					
0.048		0.052				
0.087		0.102				
	9.90	0.350		0.390		
	9.90		10.3	0.390		0.406
6.30		6.90	0.248			0.272
	2.54			0.1		
28.0		29.8	1.102			1.173
	3.39			0.133		
1.14		1.70	0.045			0.067
0.00						
Φ		3.6		0.142		

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