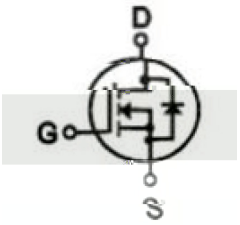
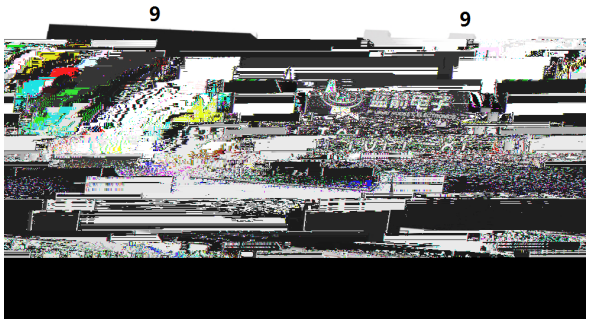
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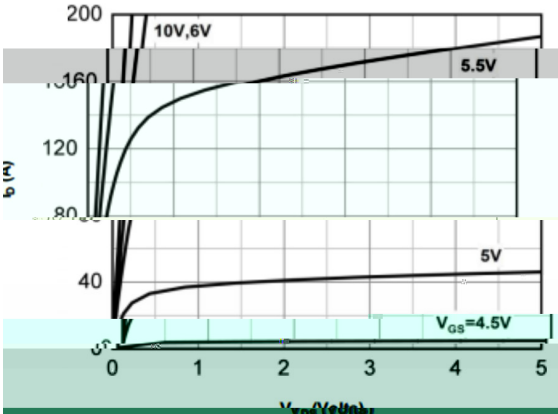


Figure 1: On-Region Characteristics

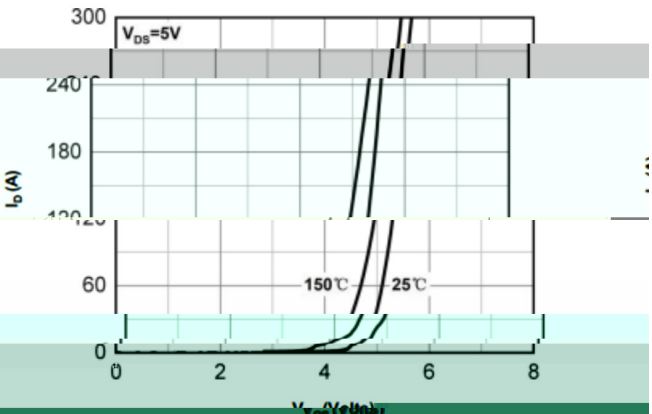


Figure 2: Transfer Characteristics

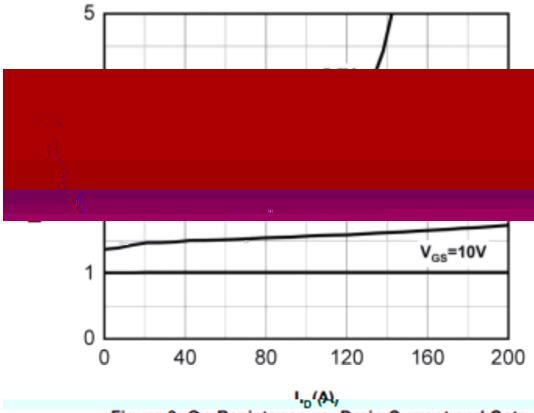


Figure 3: On-Resistance vs. Drain Current and Gate

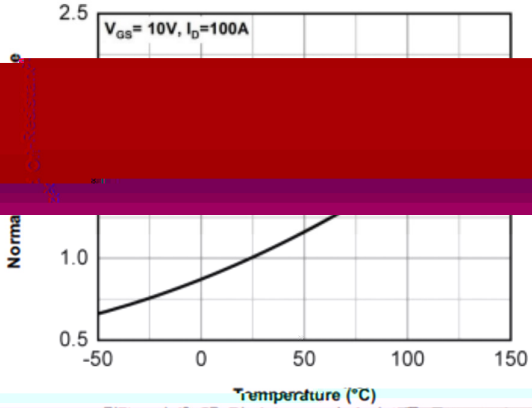


Figure 4: On-Resistance Variation with Temperature

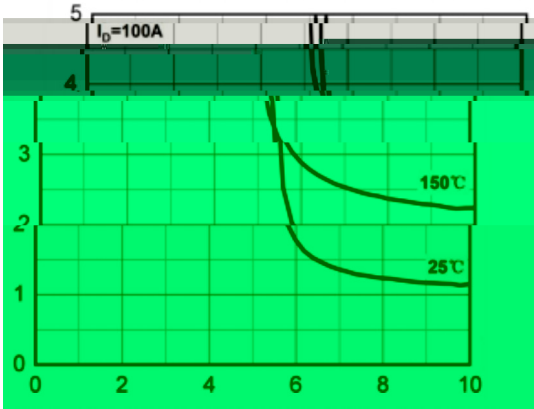


Figure 5: On-Resistance vs. Gate-Source Voltage

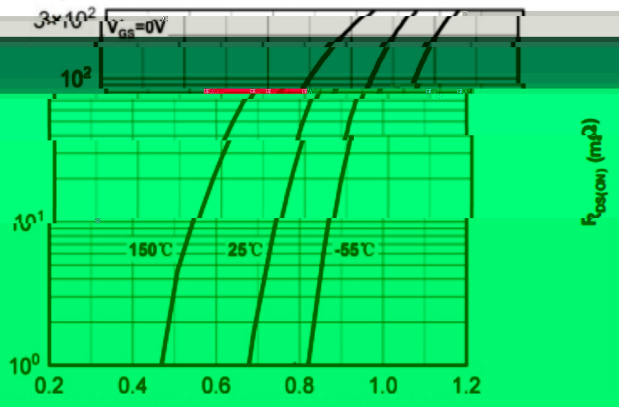


Figure 6: Body Diode Characteristics

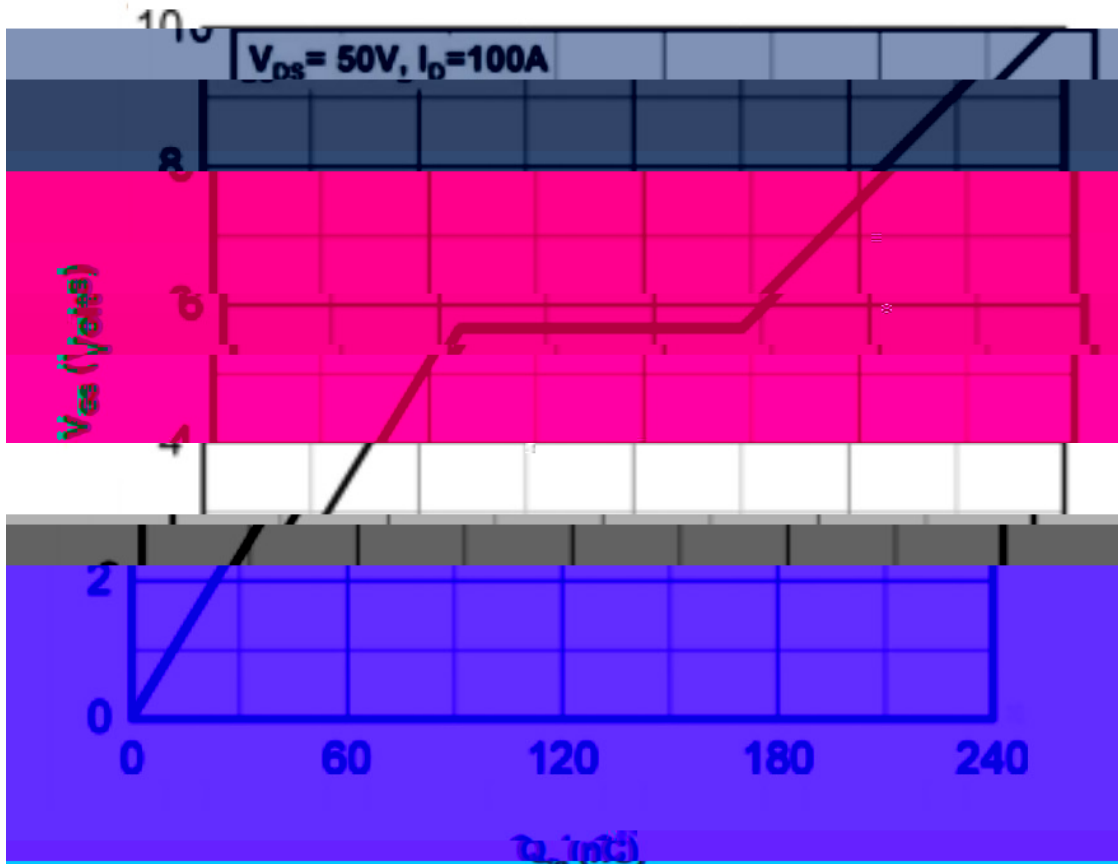


Figure 7: Gate Charge Characteristics

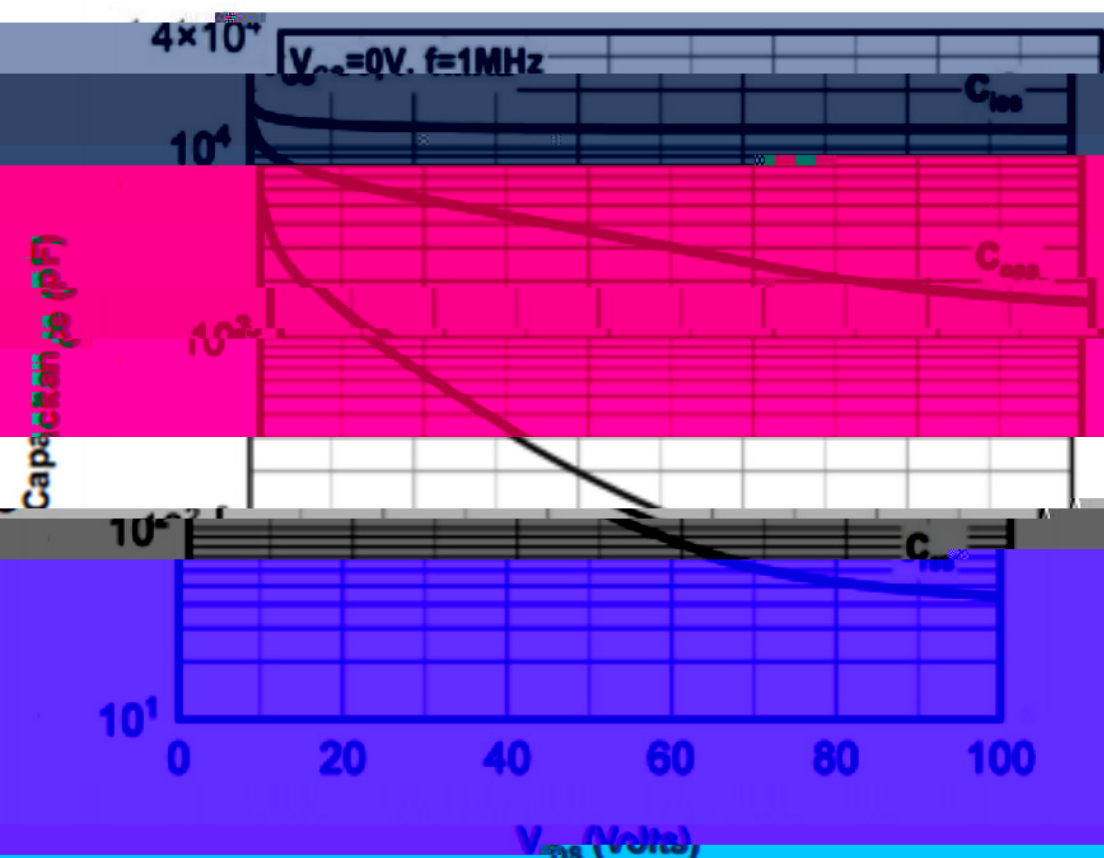
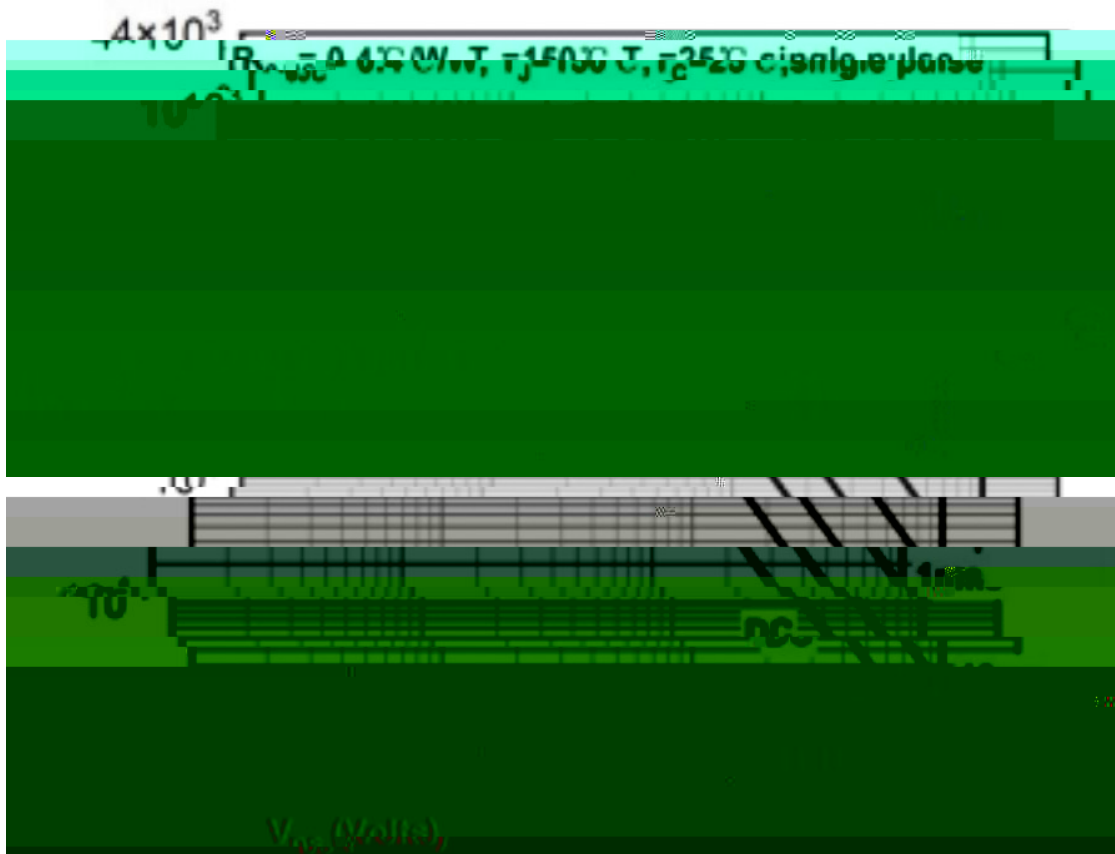
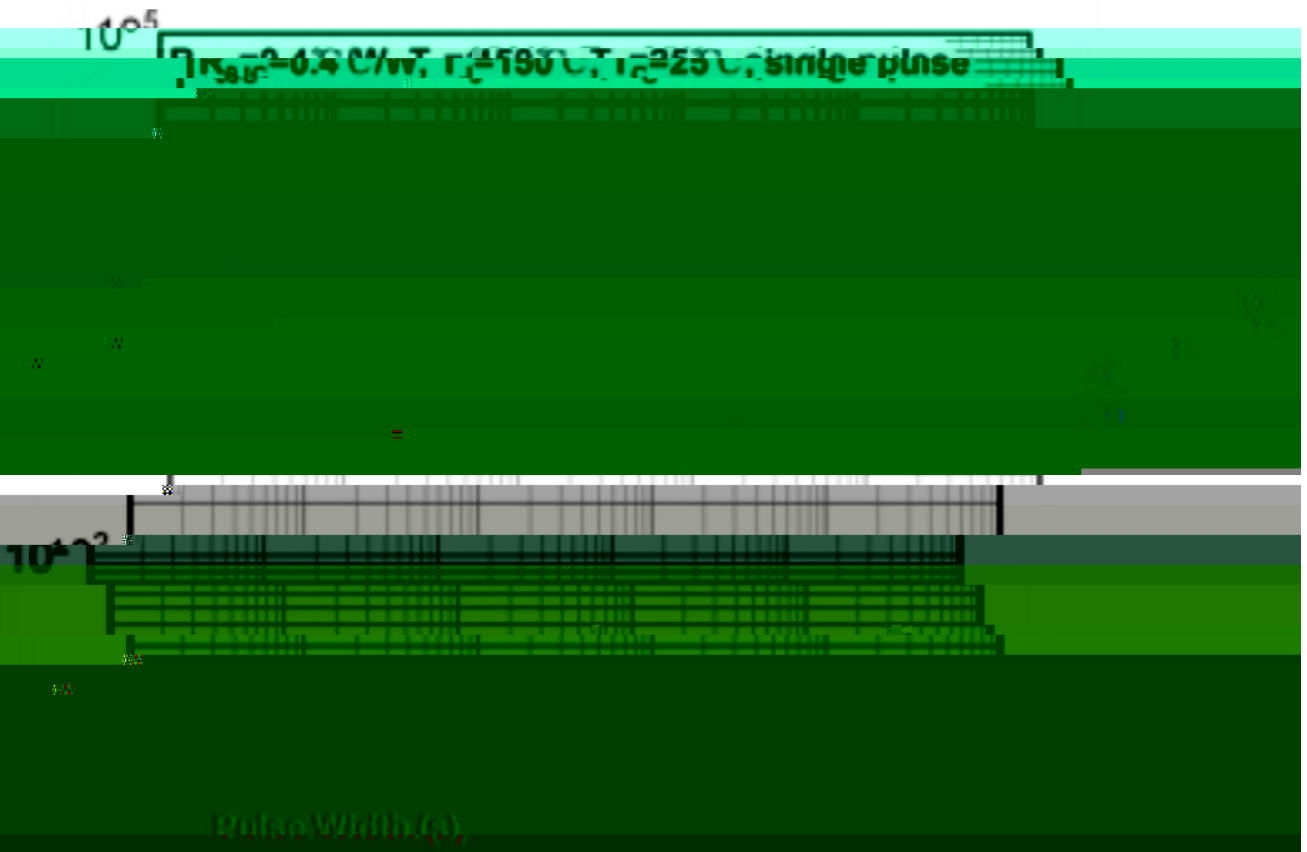
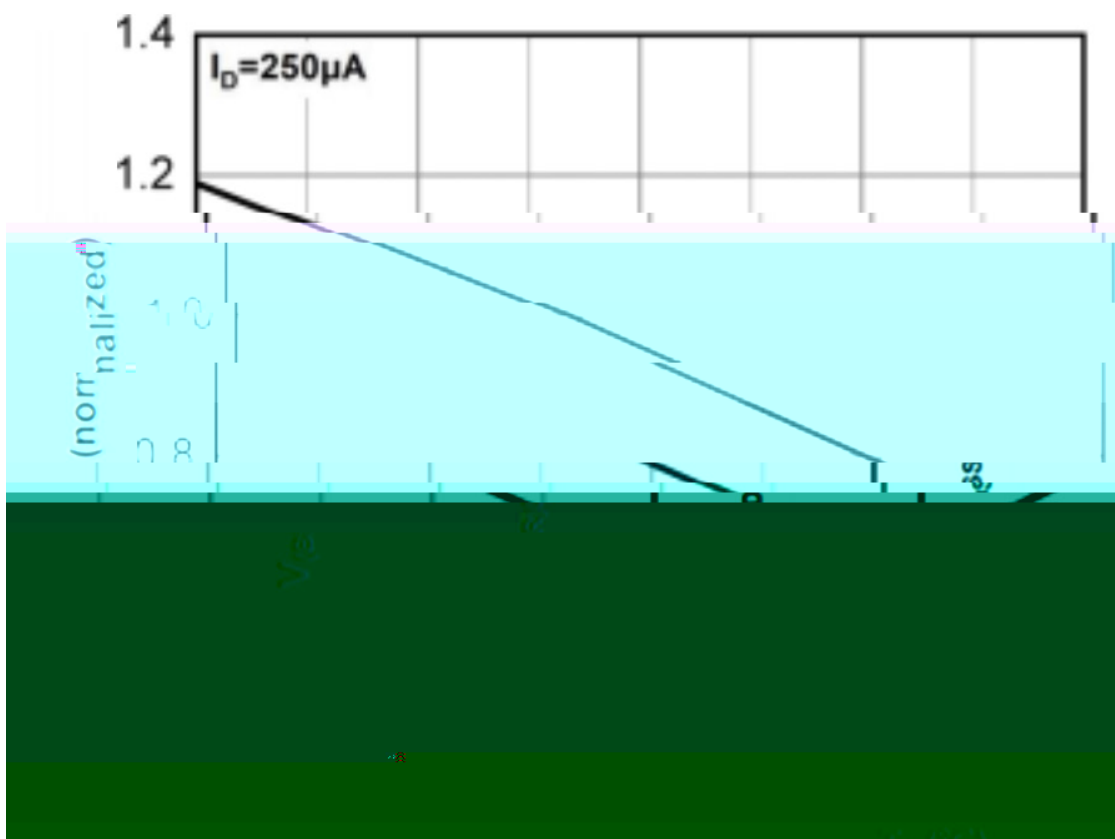
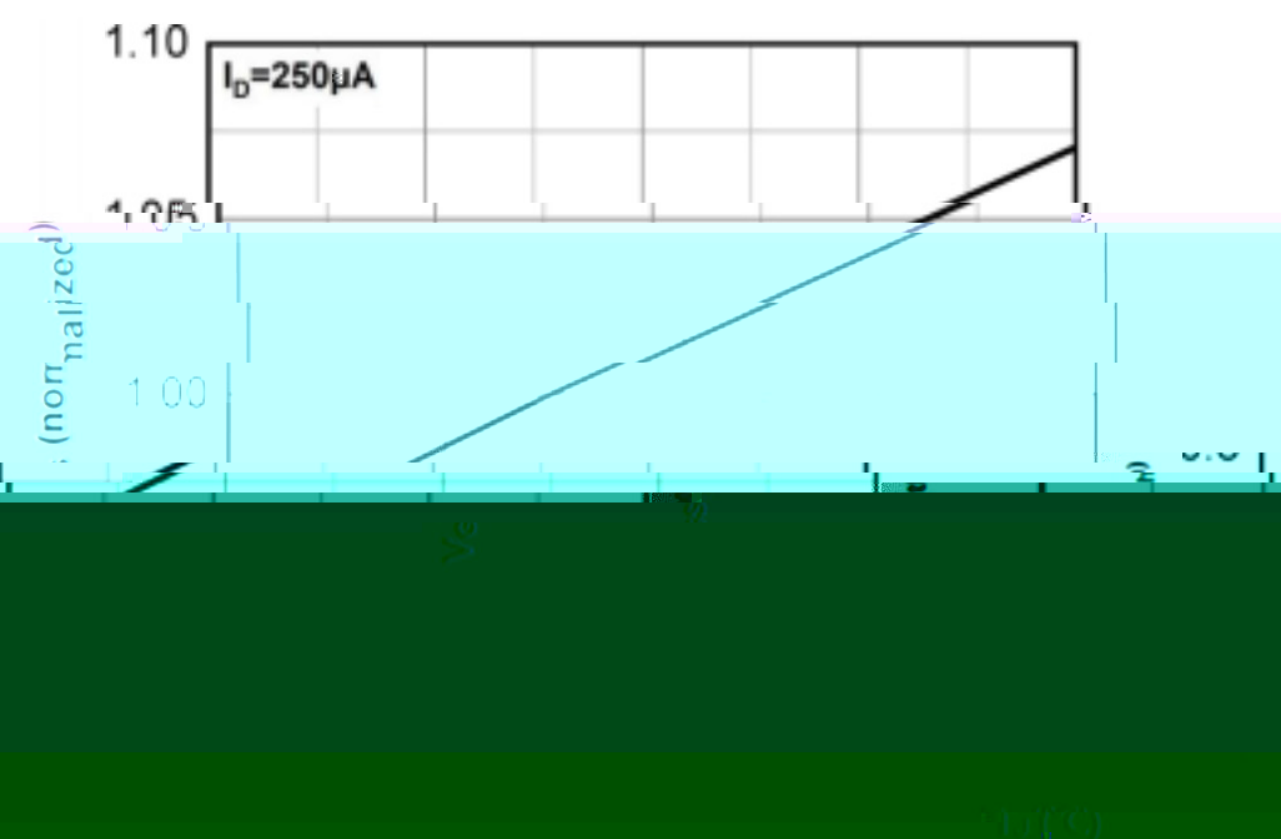


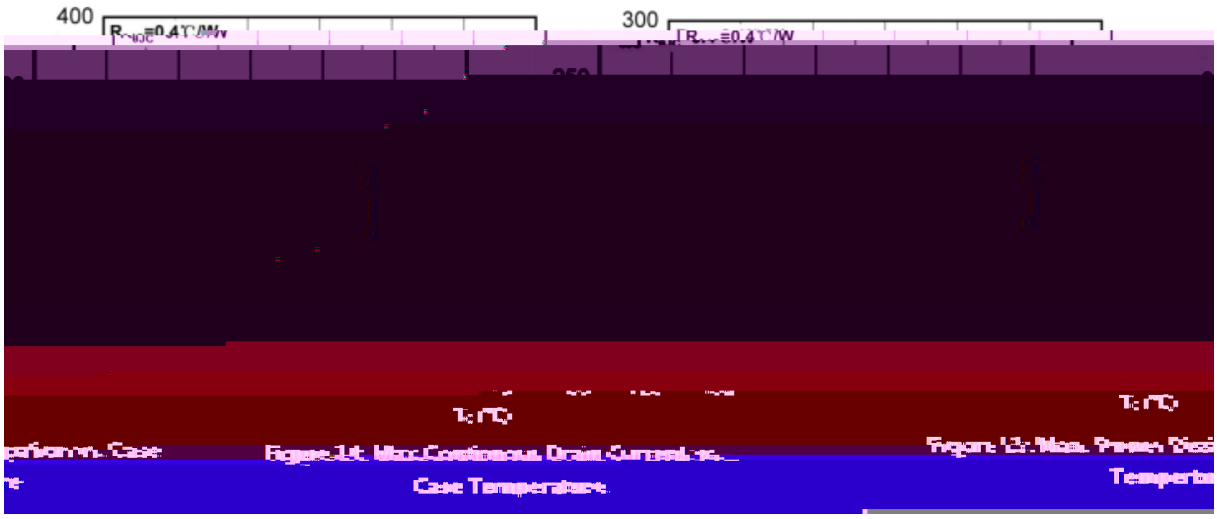
Figure 8: Capacitance Characteristics

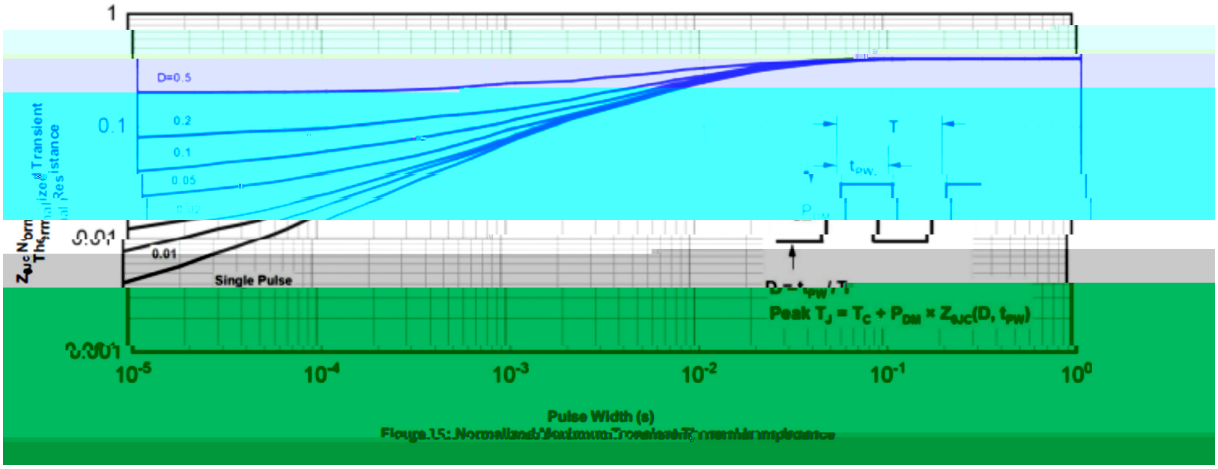









400
300
Case Temperature


1
D=0.5
0.2
0.1
0.05
0.02
0.01
Single Pulse
T
t_{PW}
$D = t_{PW} / T$
Peak $T_J = T_C + P_{DM} \times Z_{\theta JC}(D, t_{PW})$
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
Pulse Width (s)

Temperature Profile for IR Reflow Soldering(Pb-Free)

± ± ± ±

± ±