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Features

- Typ. $R_{DS(on)}$ = 57 mΩ @ V_{GS} = 18 V
  Typ. $R_{DS(on)}$ = 75 mΩ @ V_{GS} = 15 V
- Ultra Low Gate Charge ($Q_{G(tot)}$ = 61 nC)
- Low Output Capacitance (C_{oss} = 107 pF)
- 100% Avalanche Tested
- AEC−Q101 Qualified and PPAP Capable
- This Device is Halide Free and RoHS Compliant with exemption 7a, Pb−Free 2LI (on second level interconnection)

Typical Applications

- Automotive On Board Charger
- Automotive DC-DC Converter for EV/HEV

MAXIMUM RATINGS °

Parameter

Table 1. THERMAL RESISTANCE MAXIMUM RATINGS

Parameter	Symbol	Max	Unit
– – –	θ		°
– – –	θ		

Table 2. ELECTRICAL CHARACTERISTICS °

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
OFF CHARACTERISTICS						
– –				–	–	
– –		°	–		–	°
		°	–	–		μ
			–	–		
– –		°	–		–	Ω
		°	–			
		°	–		–	
= 18 V, I						

Table 2. ELECTRICAL CHARACTERISTICS °

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
DRAIN−SOURCE DIODE CHARACTERISTICS						
		− µ	−		−	
			−		−	
			−		−	µ
			−		−	
			−		−	
			−		−	

TYPICAL CHARACTERISTICS

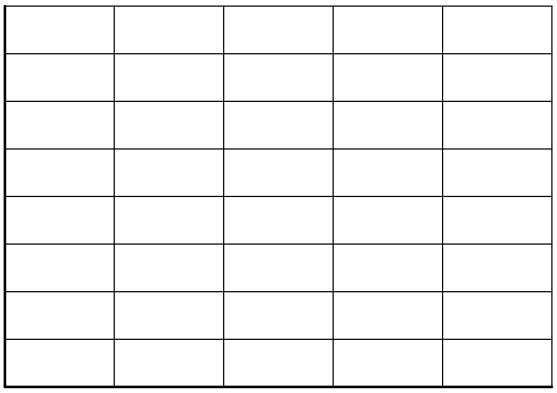


Figure 7. Gate−to−Source Voltage vs. Total Charge

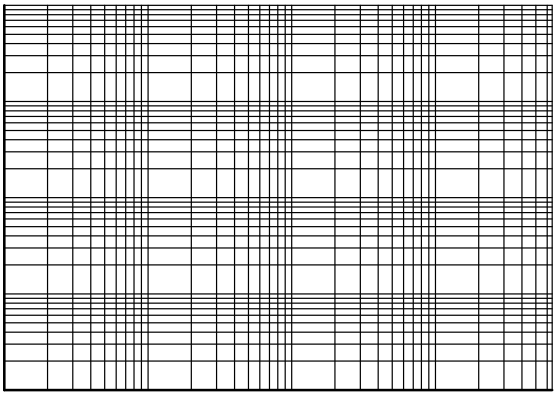
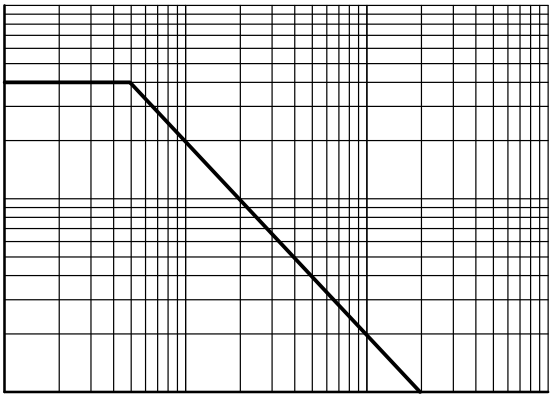
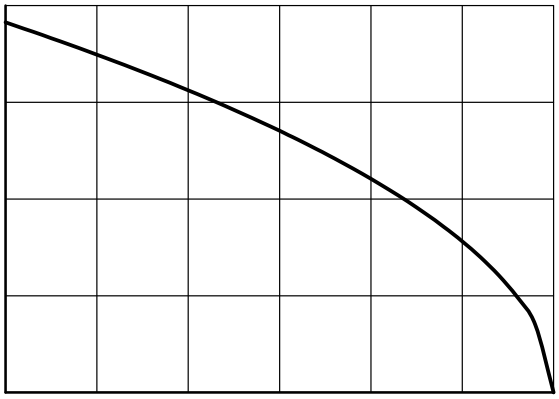
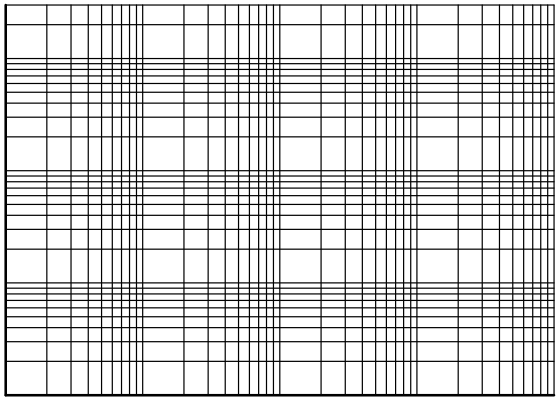
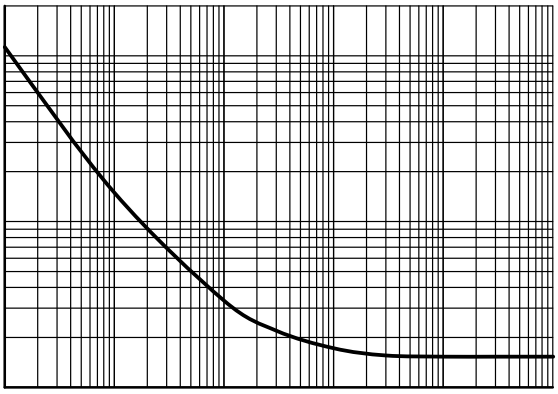


Figure 8. Capacitance vs. Drain−to−Source Voltage









TYPICAL CHARACTERISTICS

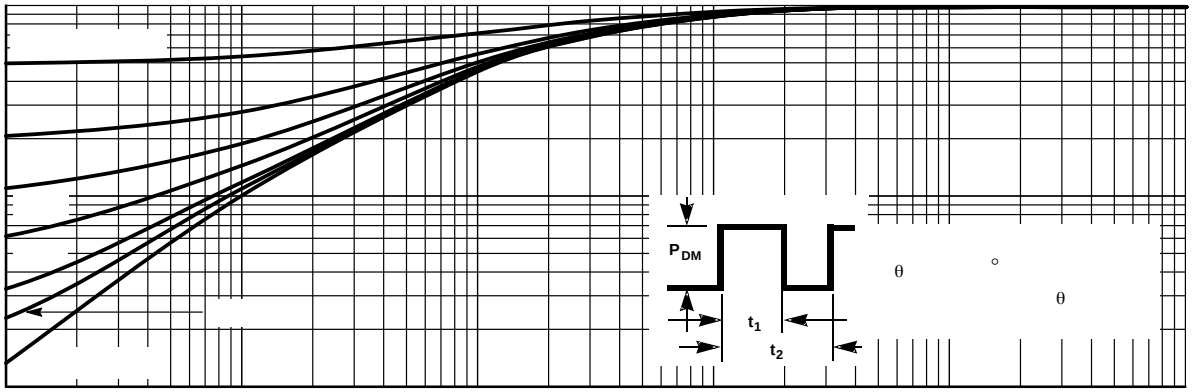


Figure 13. Junction−to−Case Thermal Response

TO−247−4LD
CASE 340CJ
ISSUE A

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