

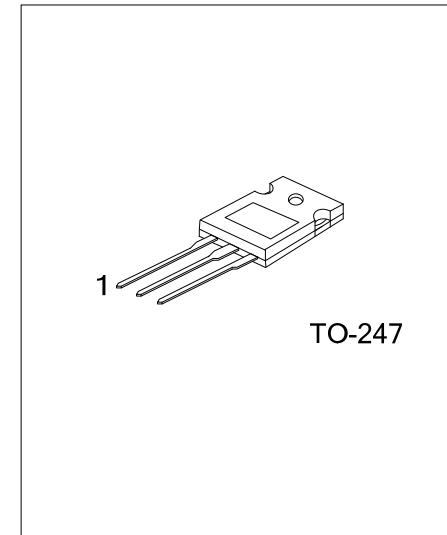
F80NM60Z

Power MOSFET

80A, 600V N-CHANNEL SUPER-JUNCTION MOSFET

■ DESCRIPTION

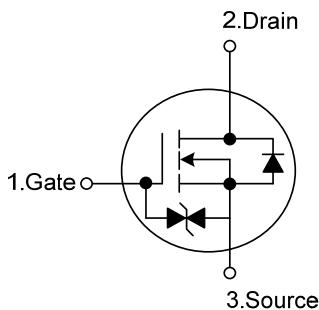
The **UTC F80NM60Z** is an N-channel enhancement mode silicon-gate power MOSFET with fast body diode and ESD Type, designed for high-voltage, high-speed power switching applications. such as fast switching time, low gate charge, low on-state resistance and high rugged avalanche characteristics.



■ FEATURES

- * $R_{DS(ON)} \leq 35 \text{ m}\Omega @ V_{GS}=10\text{V}, I_D=40\text{A}$
- * Fast body diode MOSFET technology
- * Low switching losses due to reduced Qrr
- * Single Pulse Avalanche Energy Rated
- * Fast Switching Speeds
- * Linear Transfer Characteristics
- * High Input Impedance
- * Avalanche energy tested

■ SYMBOL



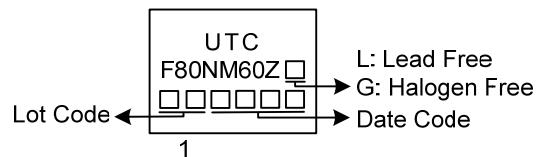
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
F80NM60ZL-T47-T	F80NM60ZG-T47-T	TO-247	G	D	S	Tube

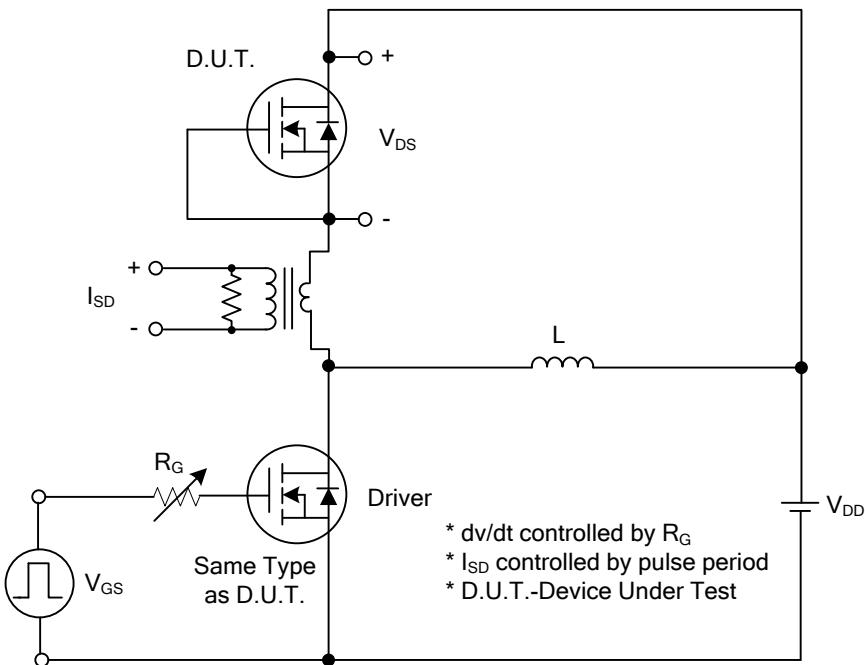
Note: Pin Assignment: G: Gate C: Collector E: Emitter

A diagram showing a vertical line with a horizontal branch to the right. The main vertical line is labeled '(1)Packing Type'. The horizontal branch is labeled '(2)Package Type'. The end of the horizontal branch is labeled '(3)Green Package'.	(1)T: Tube
	(2) T47: TO-247
	(3) G: Halogen Free and Lead Free, L: Lead Free

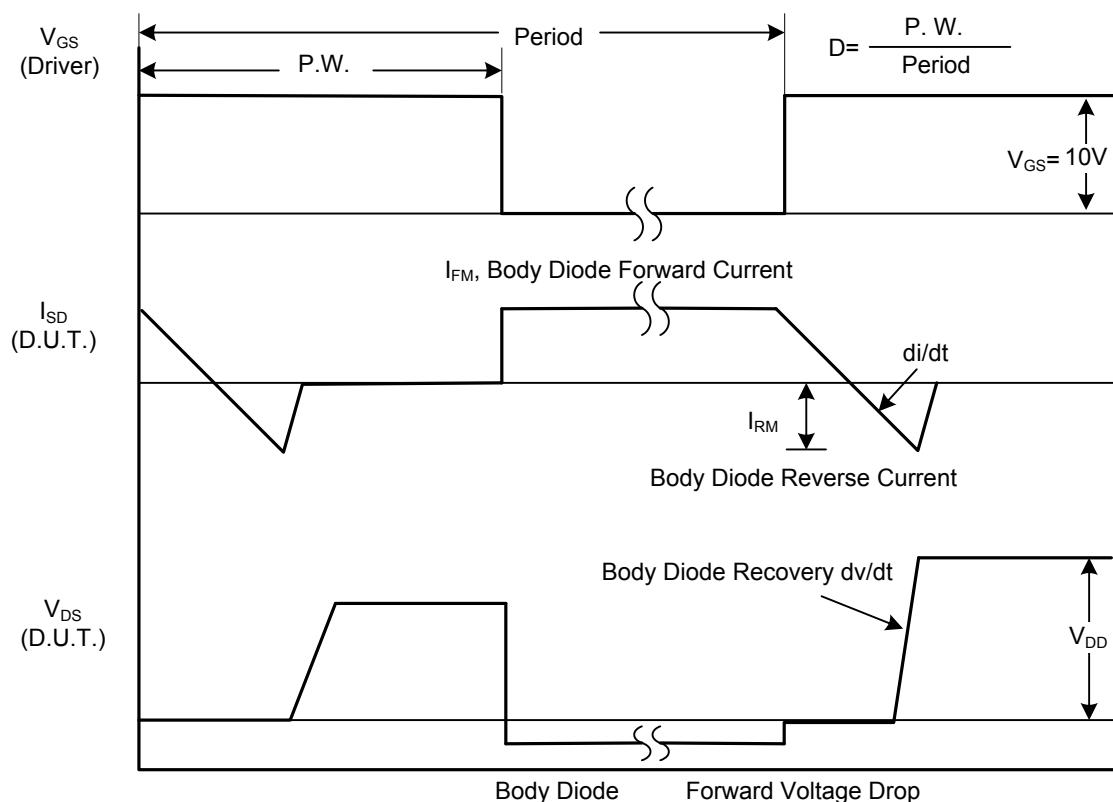
■ MARKING



■ TEST CIRCUITS AND WAVEFORMS



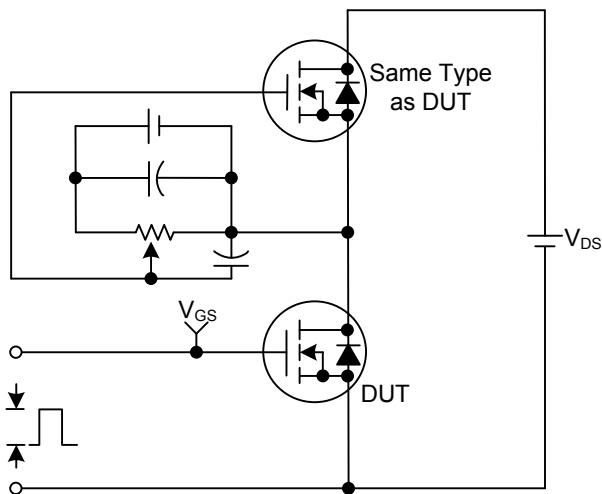
Peak Diode Recovery dv/dt Test Circuit



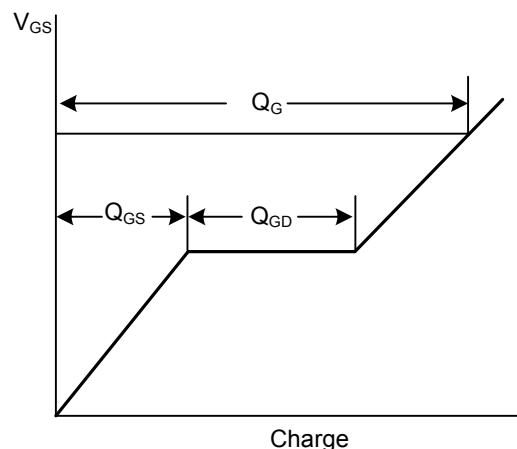
Peak Diode Recovery dv/dt Waveforms

■ TEST CIRCUITS AND WAVEFORMS

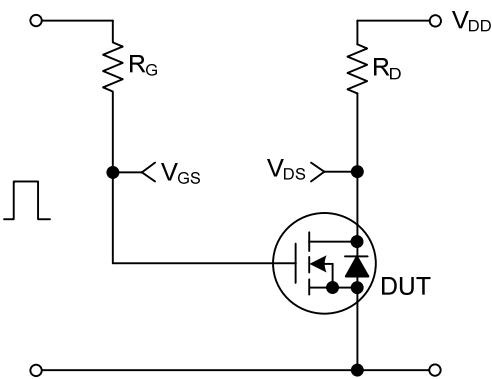
Gate Charge Test Circuit



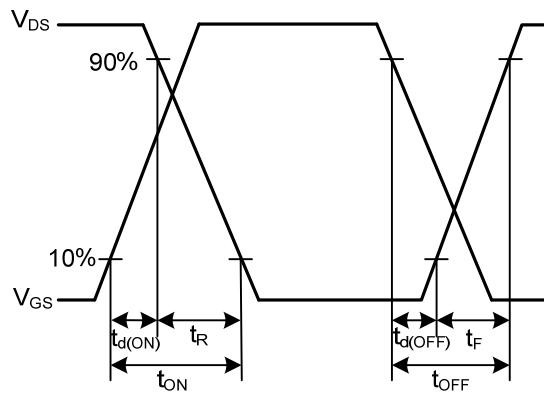
Gate Charge Waveforms



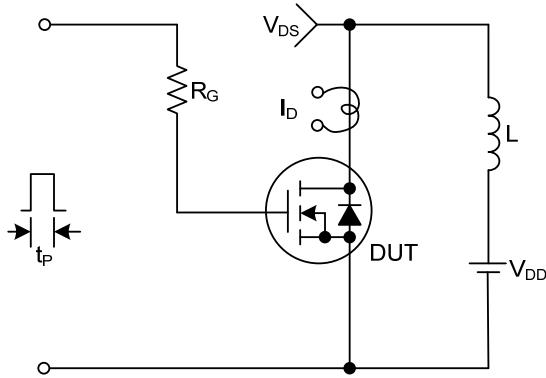
Resistive Switching Test Circuit



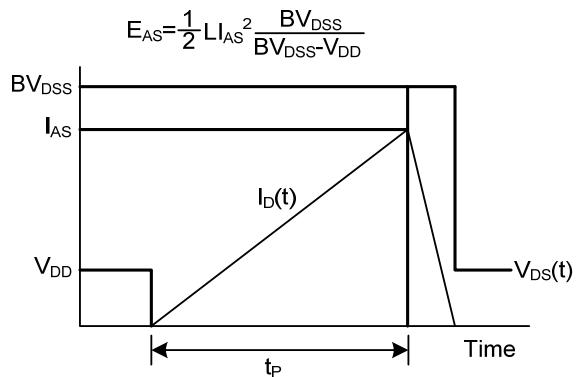
Resistive Switching Waveforms



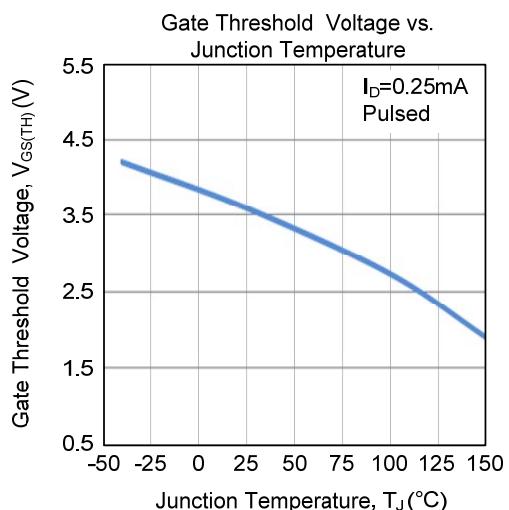
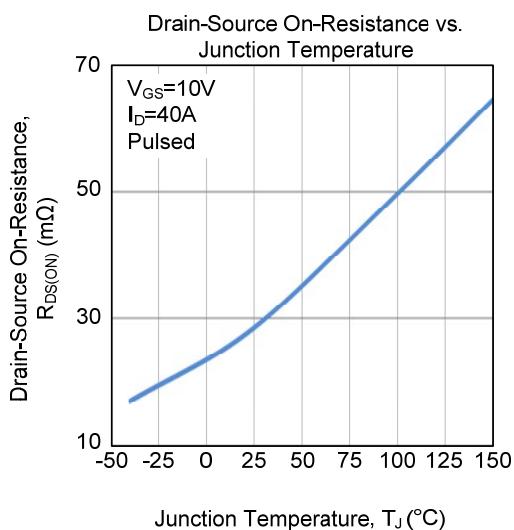
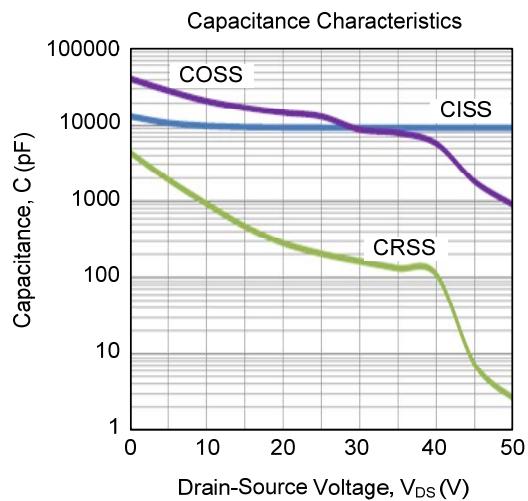
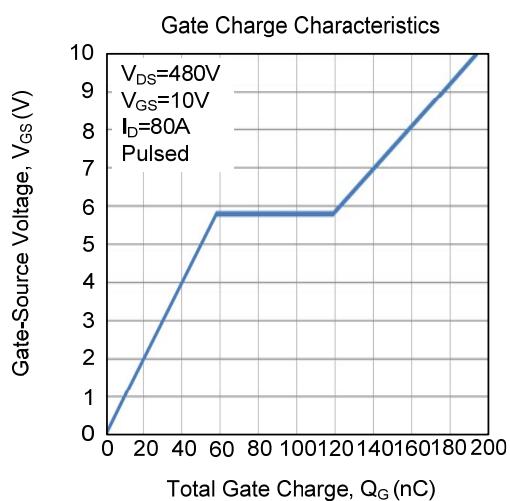
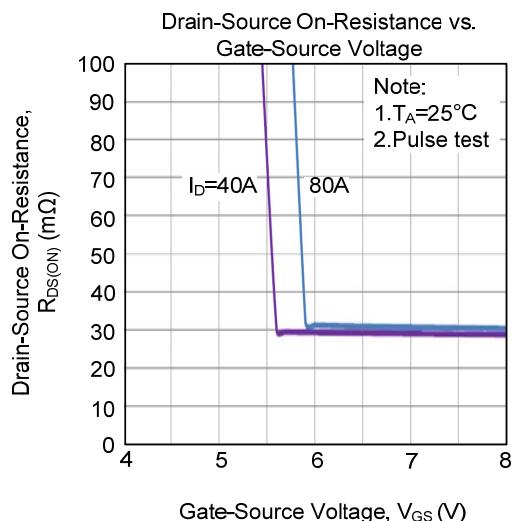
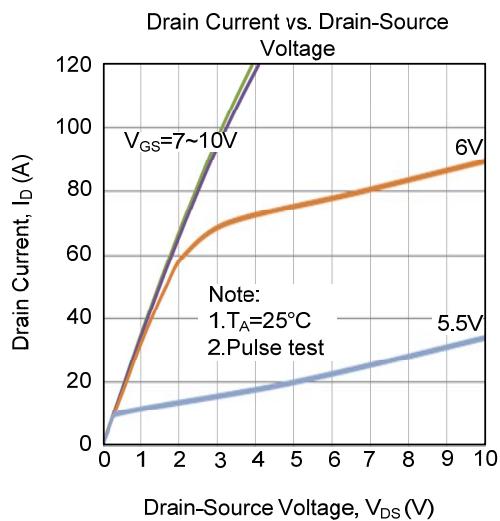
Unclamped Inductive Switching Test Circuit



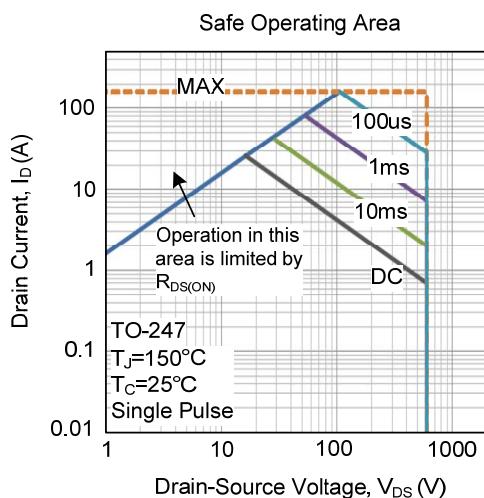
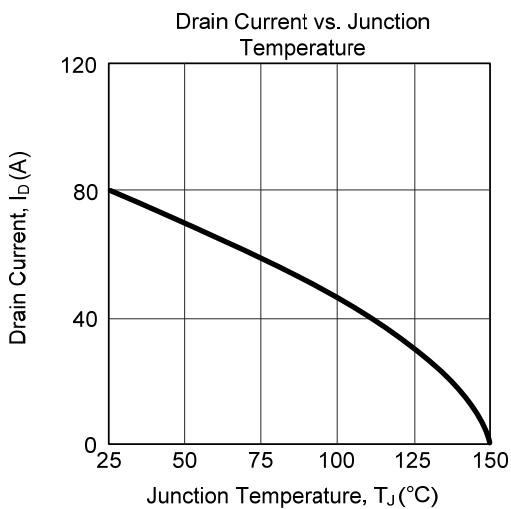
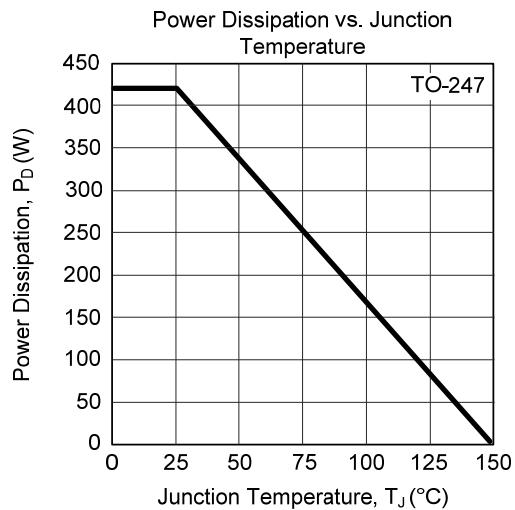
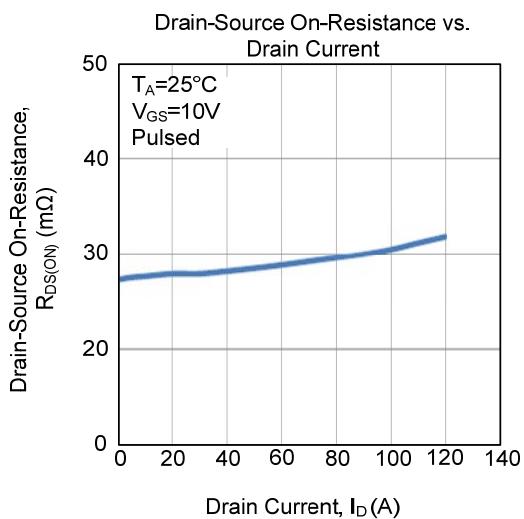
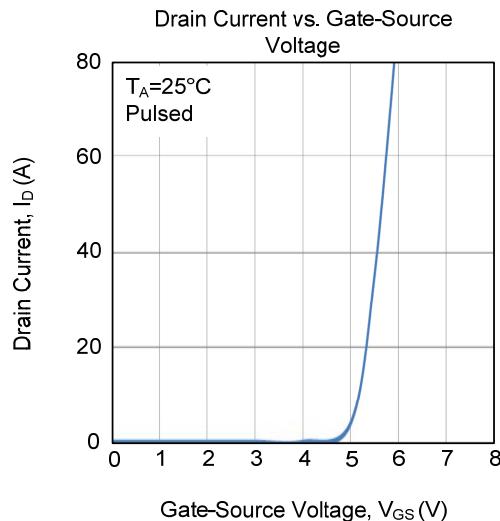
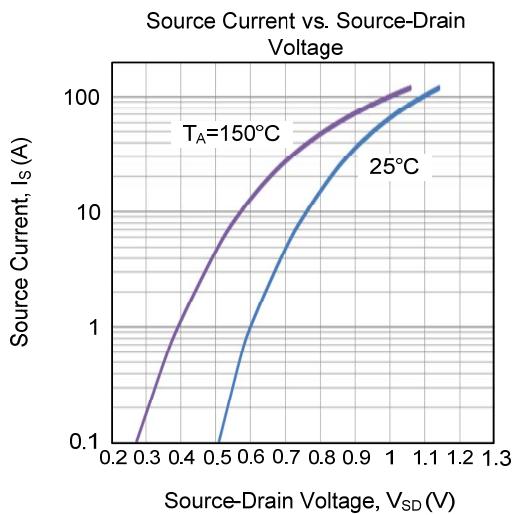
Unclamped Inductive Switching Waveforms



■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS (Cont.)



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