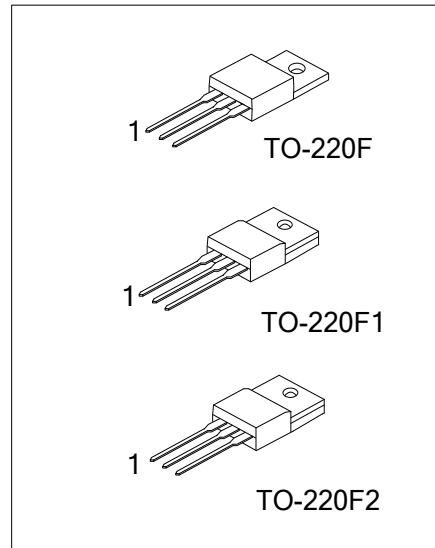


14N70-ML

Power MOSFET

14A, 700V N-CHANNEL
POWER MOSFET

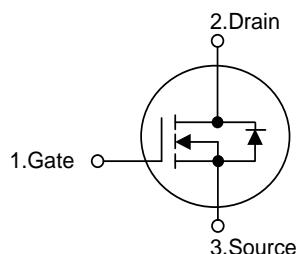
■ DESCRIPTION

The UTC 14N70-ML is a high voltage power MOSFET combines advanced trench MOSFET designed to have better characteristics, such as fast switching time, low gate charge, low on-state resistance and high rugged avalanche characteristics. This power MOSFET is usually used in high speed switching applications of switching power supplies and adaptors.

■ FEATURES

- * $R_{DS(ON)} \leq 0.82 \Omega$ @ $V_{GS}=10V$, $I_D=7.0A$
- * Fast switching capability
- * Avalanche energy tested
- * Improved dv/dt capability, high ruggedness

■ SYMBOL



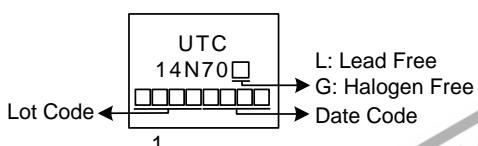
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
14N70L-TF1-T	14N70G-TF1-T	TO-220F1	G	D	S	Tube
14N70L-TF2-T	14N70G-TF2-T	TO-220F2	G	D	S	Tube
14N70L-TF3-T	14N70G-TF3-T	TO-220F	G	D	S	Tube

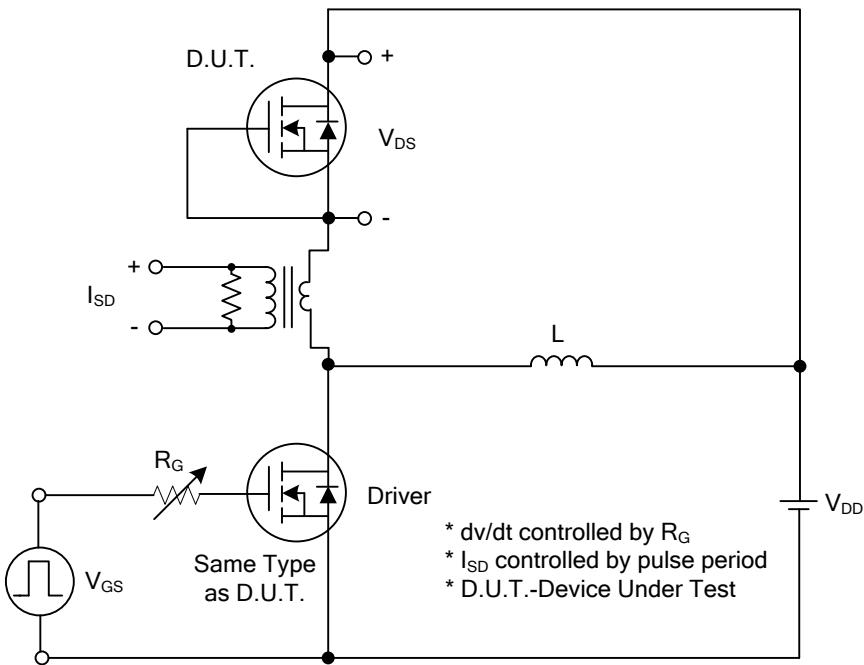
Note: Pin Assignment: G: Gate D: Drain S: Source

14N70G-TF1-T	(1)Packing Type (2)Package Type (3)Green Package	(1) T: Tube (2) TF1: TO-220F1, TF2: TO-220F2, TF3: TO-220F (3) G: Halogen Free and Lead Free, L: Lead Free
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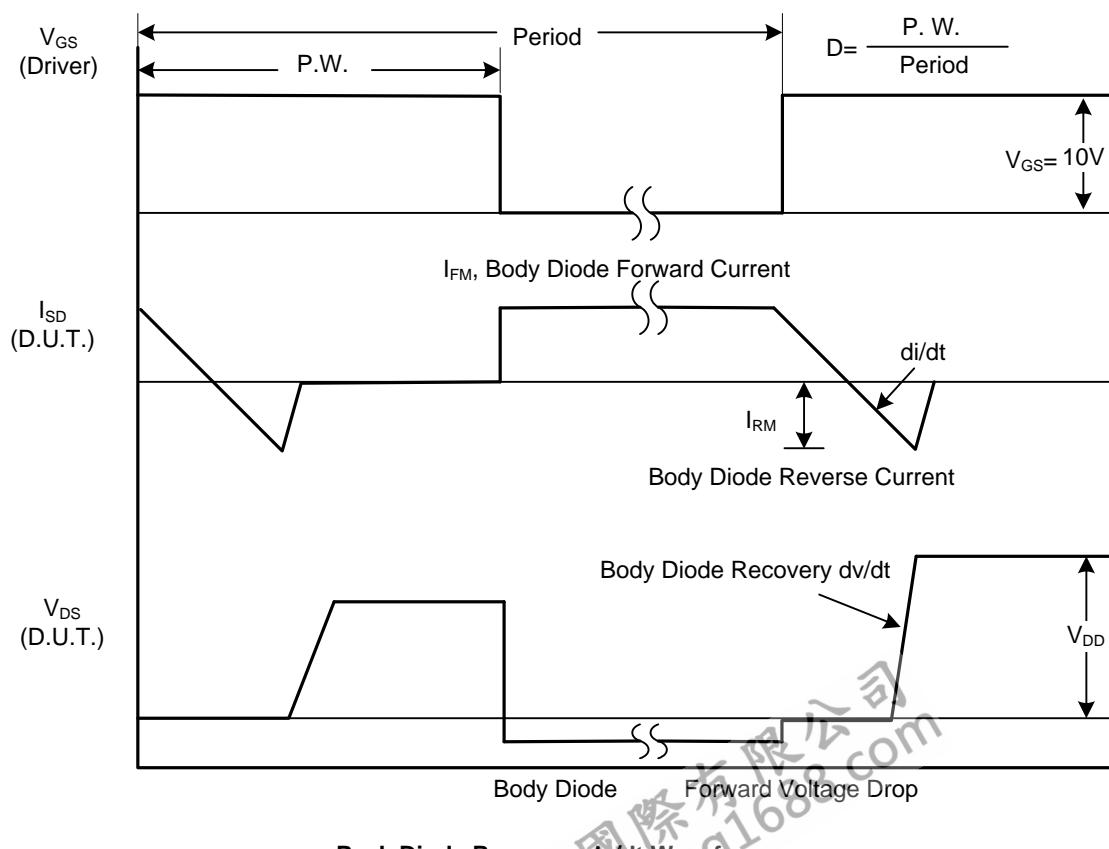
■ MARKING



■ TEST CIRCUITS AND WAVEFORMS

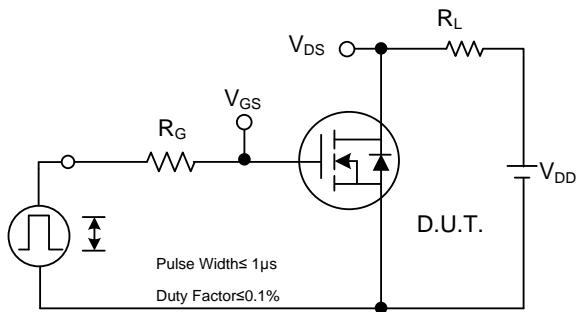


Peak Diode Recovery dv/dt Test Circuit

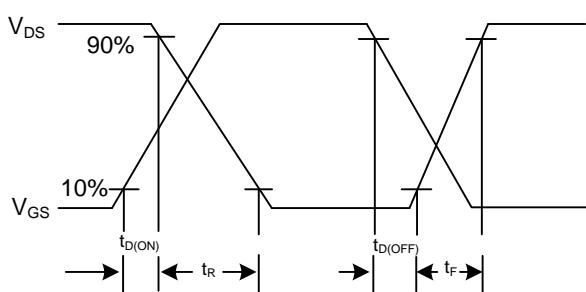


Peak Diode Recovery dv/dt Waveforms

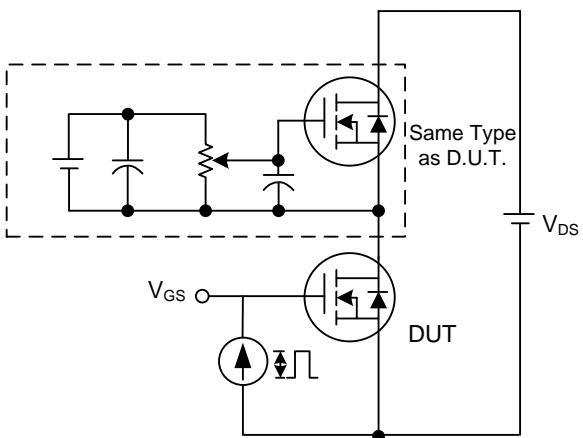
■ TEST CIRCUITS AND WAVEFORMS



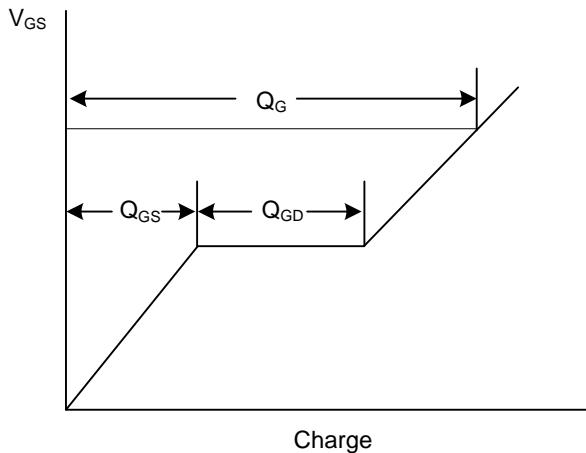
Switching Test Circuit



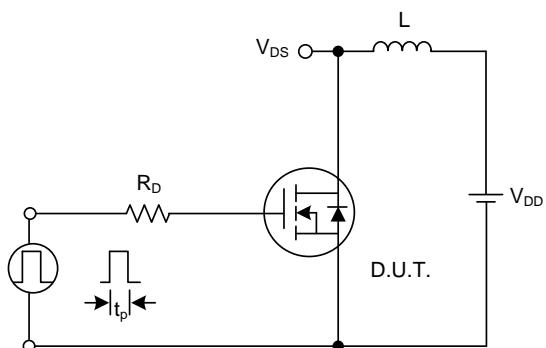
Switching Waveforms



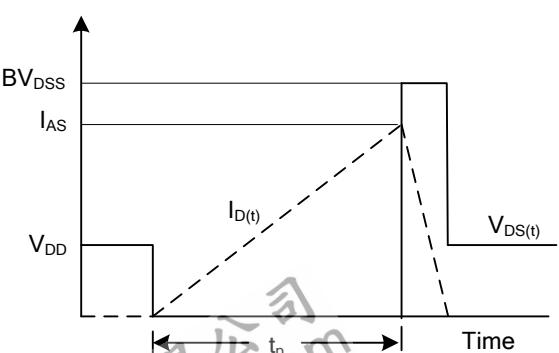
Gate Charge Test Circuit



Gate Charge Waveform

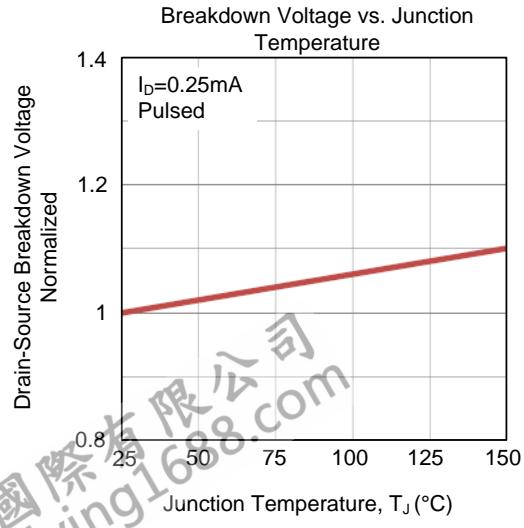
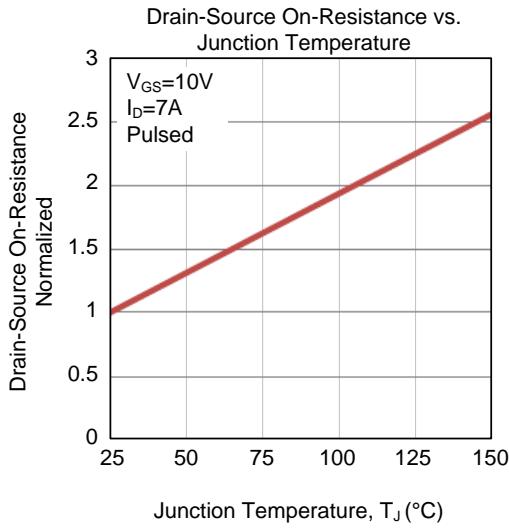
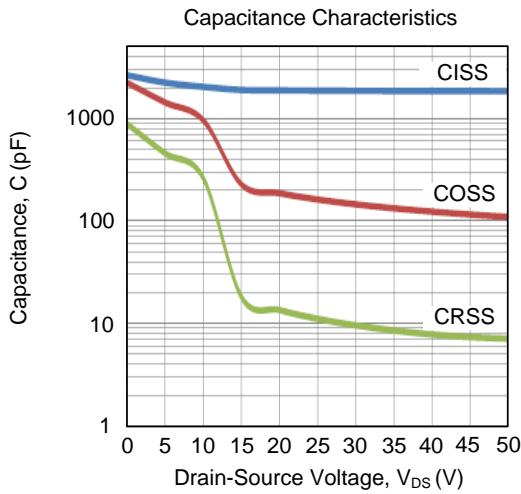
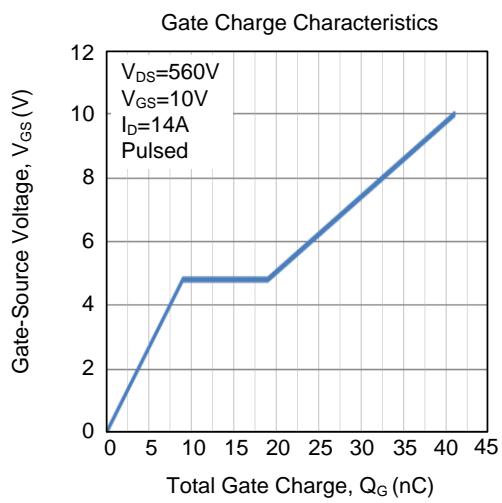
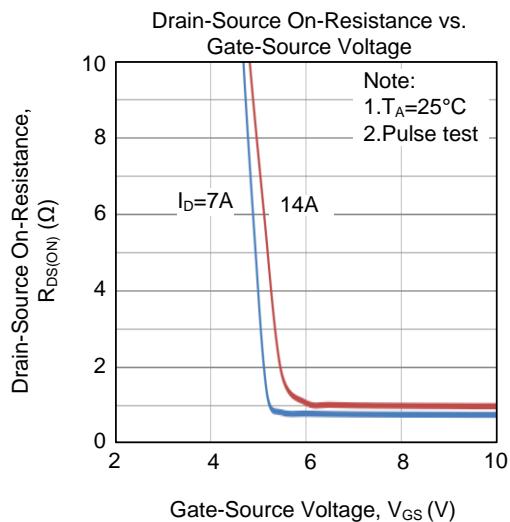
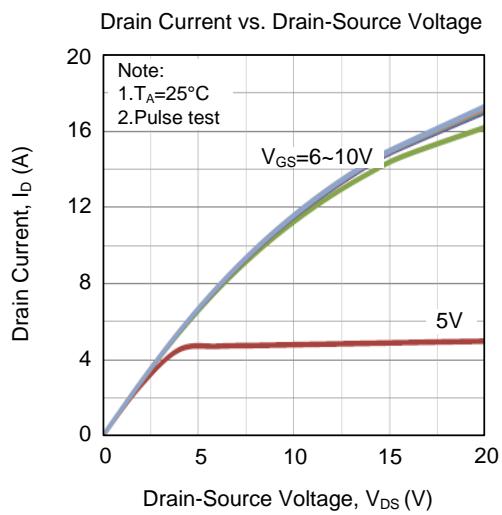


Unclamped Inductive Switching Test Circuit

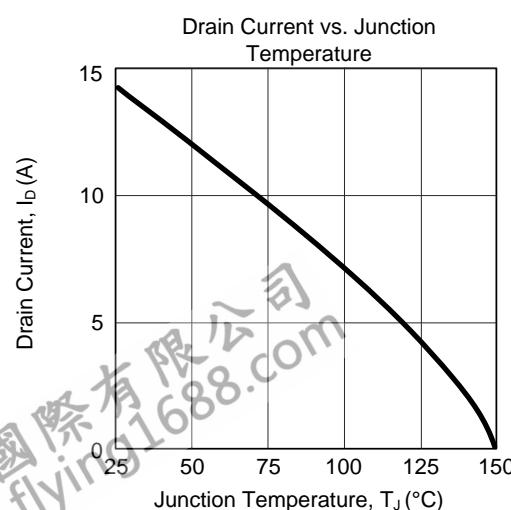
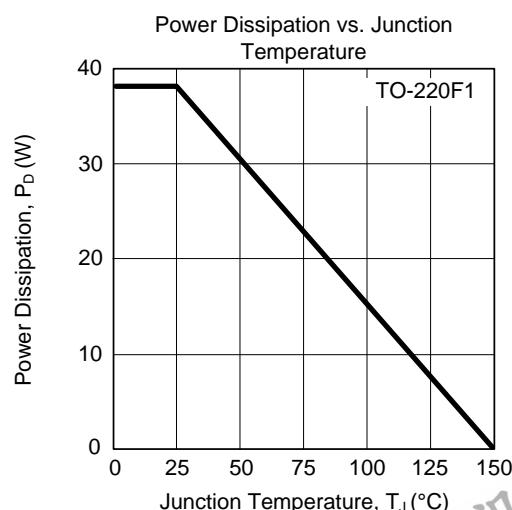
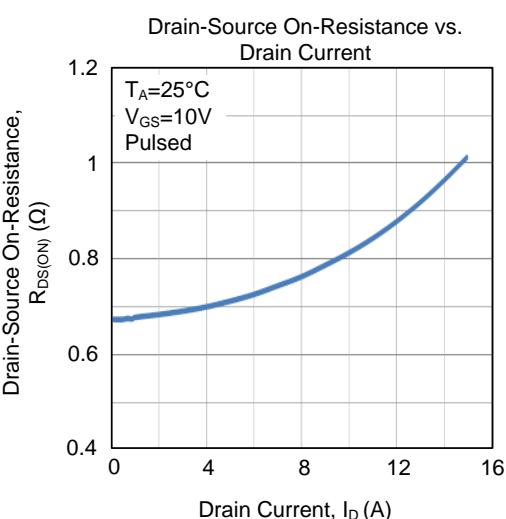
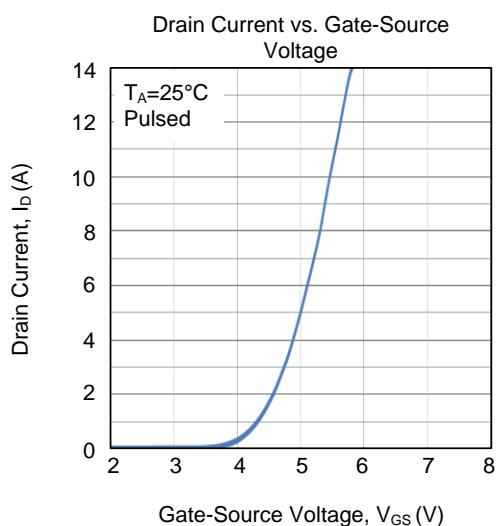
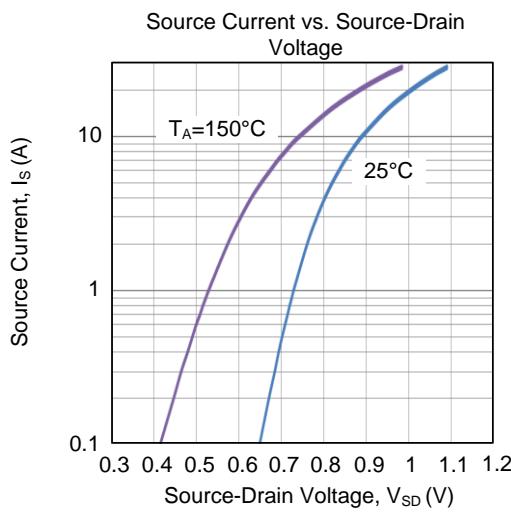
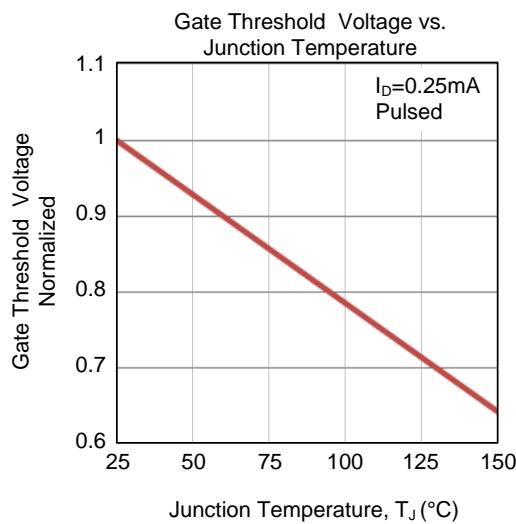


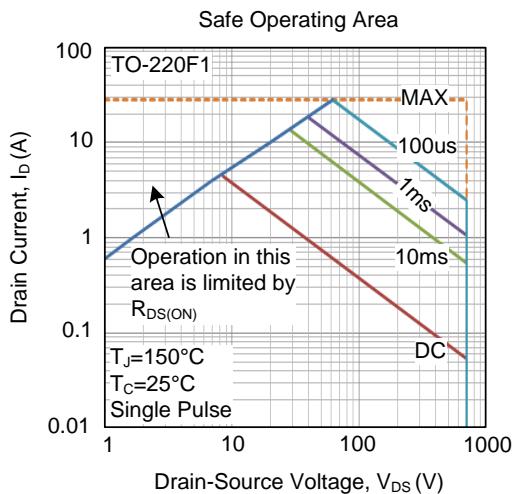
Unclamped Inductive Switching Waveforms

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS (Cont.)



■ TYPICAL CHARACTERISTICS (Cont.)

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