JMTC3003A

Description

JMT N-channel Enhancement Mode Power MOSFET

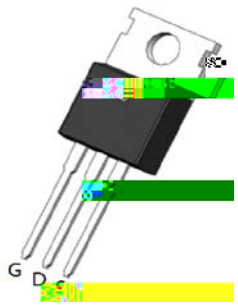
Features

- 30V, 150A
  $R_{DS(ON)}$ < 3.3mΩ @ V_{GS} = 10V
  $R_{DS(ON)}$ < 6.2mΩ @ V_{GS} = 4.5V
- Advanced Trench Technology
- Excellent $R_{DS(ON)}$ and Low Gate Charge
- Lead Free

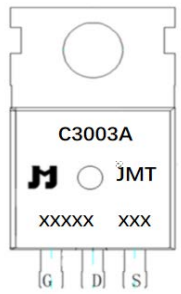
Applications

- Load Switch
- PWM Application
- Power Management

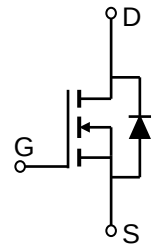
100% UIS TESTED!
100% ΔVds TESTED!



TO-220C-3L Top View



Marking and Pin Assignment



Schematic Diagram

Package Marking and Ordering Information

Device Marking	Device		Package			

Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

	Parameter		Value	Unit
DS				V
V_{GS}				V
I_D	Continuous Drain Current	T_C = 25°C	150	A
		T_C = 100°C	95	
I_{DM}	Pulsed Drain Current (1)		600	A
E_{AS}	Single Pulsed Avalanche Energy (2)		210	mJ
P_D	Power Dissipation	T_C = 25°C	89	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient (3)		56	°C/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case		1.40	°C/W
T_J, T_{STG}	Junction & Storage Temperature Range		-55 to 150	°C

Test Circuit

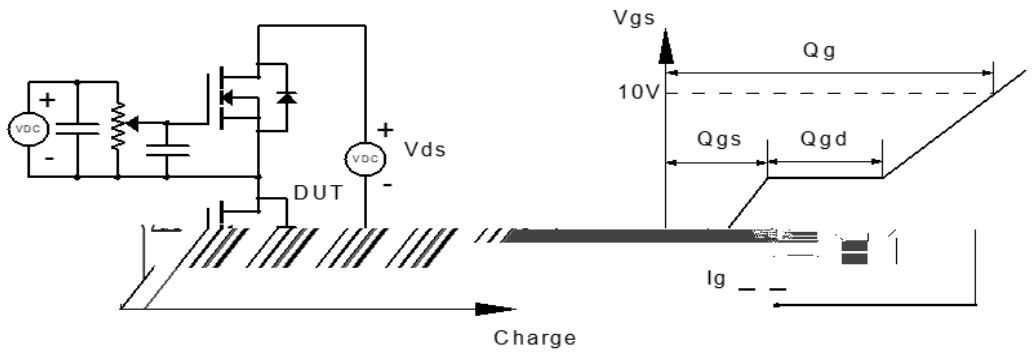


Figure 1: Gate Charge Test Circuit & Waveform

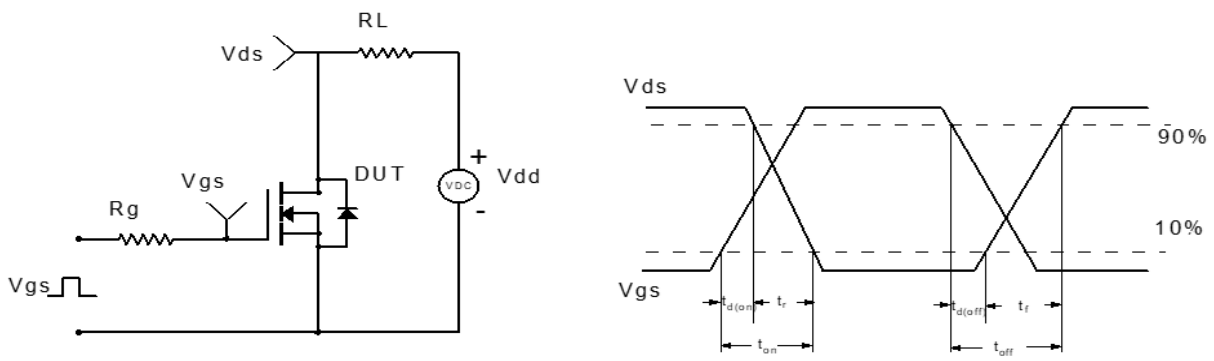


Figure 2: Resistive Switching Test Circuit & Waveform

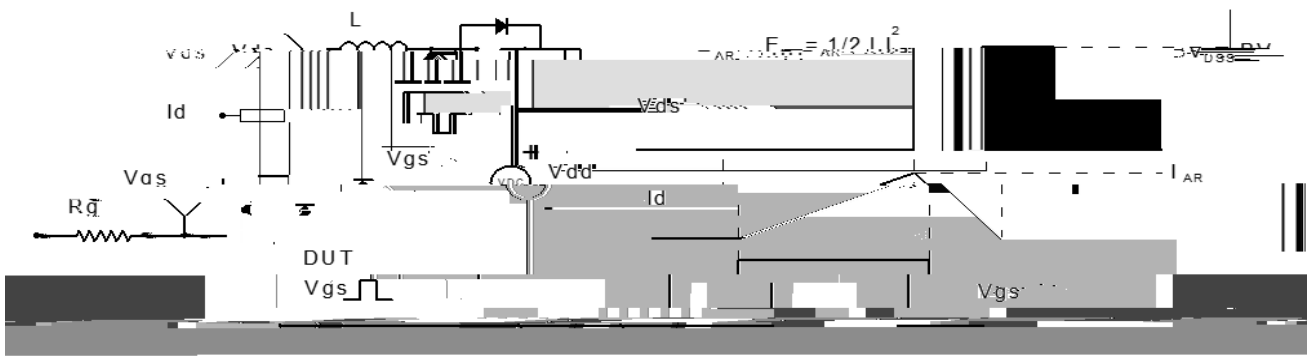
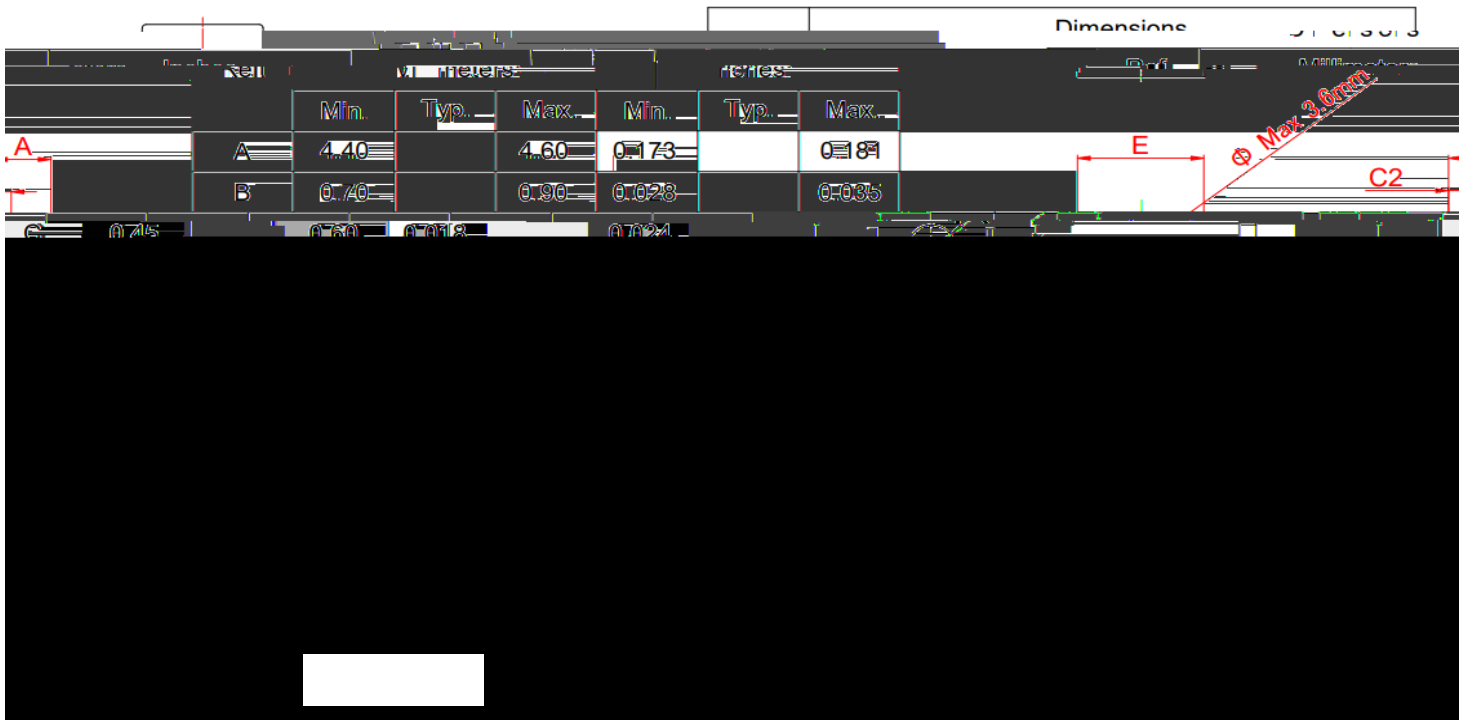


Figure 3: Unclamped Inductive Switching Test Circuit& Waveform

Figure 4: Diode Recovery Test Circuit & Waveform

Package Mechanical Data(TO-220C-3L)



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