CUSTOMER NOTICE

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

APPROVALS

PCB DES. LT

TITLE: SCHEMATIC

FAST 60V PROTECTED HIGH-SIDE NMOS STATIC SWITCH DRIVER

IC NO. LTC7003EMSE

SIZE N/A

REV. DC2749A

DATE: Tuesday, October 10, 2017

SHEET 1 OF 2

Note: OPT = (OPT) = Optional = Not Used
Note: Unless otherwise specified:
- All resistors are in ohms, 1%, 0603.
- All capacitors are in microfarads 0603.
- All capacitors are 25V. 1/16W = 0402, 1/10W = 0603, 1/8W = 0805, 1/4W = 1206, 1W = 2512.

4.7uF 100V Murata GRM20C72A475ME01 (1210, X7R, -75% at 60V).
100uF 63V Wurth Electronic 860040775006 (10x12.5mm, 640mA@100KHz@105°C, 0.34Ohm@100KHz) 5.1V Zener On Semi MMSZ5V1T1.0 (400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms)

4.7uF 100V Murata GRM120C72A475ME01 (1210, 07R, -25% at 60V).
100uF 63V Wurth Electronic 860040775006 (10x12.5mm, 640mA@100KHz@105°C, 0.34Ohm@100KHz) 5.1V Zener On Semi MMSZ5V1T1.0 (400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms) 400W for 0.1ms)

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0 Ohm 1225 TEPAC RNS326
100Ohm 1210 NICHDX25101TF (0.5W, 400Vfor 0.1ms) 400Vfor 0.1ms) 400Vfor 0.1ms) 400Vfor 0.1ms) 400Vfor 0.1ms) 400Vfor 0.1ms) 400Vfor 0.1ms)

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OPTIONAL ON/OFF
and SINGLE SHOT

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THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

Scale = None