

## N-CHANNEL ENHANCEMENT MODE FIELD EFFECT TRANSISTOR

## Product Summary

$E_{V_{DS}}$	$R_{DS(on)}$ Max	$I_D$ Max $T_A = +25^\circ\text{C}$
60V	7.50 $\Omega$ @ $V_{GS} = 5V$	210mA

### Description and Applications

This MOSFET has been designed to minimize the on state resistance ( $R_{DS(on)}$ ) and yet maintain superior switching performance, making it ideal for high efficiency power management applications.

- Motor Control
- Power Management Functions

### Features and Benefits

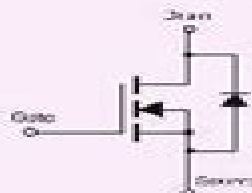
- Low On-Resistance
- Low Gate Threshold Voltage
- Low Input Capacitance
- Fast Switching Speed
- Small Surface Mount Package
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- Halogen and Antimony Free, "Green" Device (Notes 3)
- Qualified to AEC-Q101 Standards for High Reliability
- PPAP Capable (Note 4)

### Mechanical Data

- Case: SOT23
- Case Material: Molded Plastic "Green" Molding Compound
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity Level 1 per J-STD-020
- Terminals: Finish: Matte Tin Annealed over Copper Leadframe
- Solderable per MIL-STD-202, Method 208-23
- Terminal Connections: See Diagram
- Weight: 0.009 grams (Approximate)



Team View



Establishment of a school



### Index

### Ordering Information

Part Number	Compliance	Case	Packaging
2N7002-7-F	Standard	SOT23	3,000/Tape & Reel
2N7002-13-F	Standard	SOT23	10,000/Tape & Reel
2N7002D-3-F	Automotive	SOT23	3,000/Tape & Reel

1000

1. No purpose y added lead. Fully EU directive 2002/95/EC (RoHS) & also 150/90 (RoHS 2)-compliant.  
2. See <http://www.aces.com/conformity.html> for full list of substances and their maximum permitted concentrations of "halogen" and "heavy" metals. "Green" and "Blue" products.  
3. "Green" and "Antimony-free" "Caster" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <100ppm antimony compounds.  
4. All active products are AEC-Q101 qualified and are PPAP capable. Automotive, AEC-Q101 and standard products are sold both y and thermally the same, except where specified. For more information, please refer to <http://www.aces.com/quality-pro/compliance-definitions>.  
5. For marketing details, go to our website at <https://www.aces.com/customer-service/customer-portal/index.cfm?category=>

### Marking Information



K72 = Product Type Marketing Code

TMD = Total Gross Margin

Y or Y = Year from F = 2010)

H – Month(s) of the year – September

**Postal Code:** \_\_\_\_\_

Year Code	2002 N	- -	2016 D	2017 E	2018 F	2019 G	2020 H	2021 I	2022 J	2023 K		
Month Code	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct O	Nov N	Dec D

# Lab One Episode 702 Datasheet Answers

**N Noddings**



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