



## Product Overview

### NVMFS5113PL: Power MOSFET -60V, 64A, 14 mOhm, Single P-Channel, SO8-FL, Logic Level.

For complete documentation, see the data sheet

#### Product Description

Automotive Power MOSFET in a 5x6mm flat lead package designed for compact and efficient designs and including high thermal performance. Wettable Flank Option available for Enhanced Optical Inspection. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

| Features   | Benefits   |
|--|--|
| <ul style="list-style-type: none"> <li>Low on-resistance</li> <li>High Current Capability</li> <li>AEC-Q101 Qualified</li> <li>Avalanche Energy Specified</li> <li>Wettable flank (WF) option</li> </ul> | <ul style="list-style-type: none"> <li>Minimizes conduction losses</li> <li>Robust load performance</li> <li>Suitable for Automotive applications</li> <li>Safeguard against voltage overstress failures</li> <li>Facilitates Automated Optical Inspection of device-to-PCB solder joints</li> </ul> |

| Applications   | End Products   |
|--|--|
| <ul style="list-style-type: none"> <li>Power Supply</li> <li>Solenoid Driver</li> <li>Load Switch</li> <li>Motor Driver</li> </ul> | <ul style="list-style-type: none"> <li>Automotive body controllers</li> <li>Automotive Engine Controllers</li> <li>Automotive infotainment power supplies</li> </ul> |

#### Part Electrical Specifications

| Product          | Compliance  | Status | Channel Polarity | Configuration | $V_{DS(ON)}$ Min (V) | $V_{GS}$ Max (V) | $V_{GS(ON)}$ Max (V) | $I_D$ Max (A) | $P_D$ Max (W) | $r_{DS(on)}$ Max @ $V_{GS} = 2.5V$ (m) | $r_{DS(on)}$ Max @ $V_{GS} = 4.5V$ (m) | $r_{DS(on)}$ Max @ $V_{GS} = 10V$ (m) | $Q_g$ Typ @ $V_{GS} = 4.5V$ (nC) | $Q_g$ Typ @ $V_{GS} = 10V$ (nC) | $Q_{gd}$ Typ @ $V_{GS} = 4.5V$ (nC) | $Q_{rr}$ Typ (nC) | $C_{iss}$ Typ (pF) | $C_{oss}$ Typ (pF) | $C_{rss}$ Typ (pF) | Package Type    |
|------------------|---|--------|------------------|---------------|----------------------|------------------|----------------------|---------------|---------------|--|--|---------------------------------------|----------------------------------|---------------------------------|-------------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| NVMFS5113PLT1G   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | P-Channel        | Single        | 60                   | 20               | 2.5                  | 64            | 150           |  | 22                                     | 14                                    | 45                               | 83                              |                                     |                   | 4400               | 505                | 319                | SO-8FL / DF N-5 |
| NVMFS5113PLWFT1G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | P-Channel        | Single        | 60                   | 20               | 2.5                  | 64            | 150           |  | 22                                     | 14                                    | 45                               | 83                              |                                     |                   | 4400               | 505                | 319                | SO-8FL / DF N-5 |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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