



SANYO Semiconductors

## DATA SHEET

P-Channel Silicon MOSFET

# CPH6339 — General-Purpose Switching Device Applications

## Features

- Low ON-resistance.
- High-speed switching.
- 4V drive

## Specifications

Absolute Maximum Ratings at Ta=25°C

| Parameter                   | Symbol           | Conditions                                       | Ratings     | Unit |
|-----------------------------|------------------|--------------------------------------------------|-------------|------|
| Drain-to-Source Voltage     | V <sub>DSS</sub> |                                                  | -45         | V    |
| Gate-to-Source Voltage      | V <sub>GSS</sub> |                                                  | ±20         | V    |
| Drain Current (DC)          | I <sub>D</sub>   |                                                  | -3          | A    |
| Drain Current (Pulse)       | I <sub>DP</sub>  | PW≤10μs, duty cycle≤1%                           | -12         | A    |
| Allowable Power Dissipation | P <sub>D</sub>   | When mounted on ceramic substrate (900mm²×0.8mm) | 1.6         | W    |
| Channel Temperature         | T <sub>ch</sub>  |                                                  | 150         | °C   |
| Storage Temperature         | T <sub>stg</sub> |                                                  | -55 to +150 | °C   |

Electrical Characteristics at Ta=25°C

| Parameter                                  | Symbol               | Conditions                                   | Ratings |     |      | Unit |
|--------------------------------------------|----------------------|----------------------------------------------|---------|-----|------|------|
|                                            |                      |                                              | min     | typ | max  |      |
| Drain-to-Source Breakdown Voltage          | V <sub>(BR)DSS</sub> | I <sub>D</sub> =-1mA, V <sub>GS</sub> =0V    | -45     |     |      | V    |
| Zero-Gate Voltage Drain Current            | I <sub>DSS</sub>     | V <sub>D</sub> =-45V, V <sub>GS</sub> =0V    |         |     | -1   | μA   |
| Gate-to-Source Leakage Current             | I <sub>GSS</sub>     | V <sub>GS</sub> =±16V, V <sub>D</sub> =0V    |         |     | ±10  | μA   |
| Cutoff Voltage                             | V <sub>GS(off)</sub> | V <sub>D</sub> =-10V, I <sub>D</sub> =-1mA   | -1.2    |     | -2.6 | V    |
| Forward Transfer Admittance                | y <sub>fs</sub>      | V <sub>D</sub> =-10V, I <sub>D</sub> =-1.5A  | 2.0     | 3.4 |      | S    |
| Static Drain-to-Source On-State Resistance | R <sub>DS(on)1</sub> | I <sub>D</sub> =-1.5A, V <sub>GS</sub> =-10V |         | 82  | 107  | mΩ   |
|                                            | R <sub>DS(on)2</sub> | I <sub>D</sub> =-1A, V <sub>GS</sub> =-4.5V  |         | 128 | 180  | mΩ   |
|                                            | R <sub>DS(on)3</sub> | I <sub>D</sub> =-1A, V <sub>GS</sub> =-4V    |         | 140 | 196  | mΩ   |

Marking : YR

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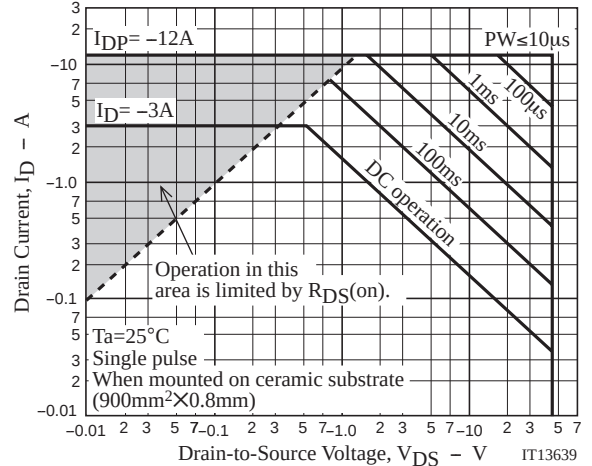
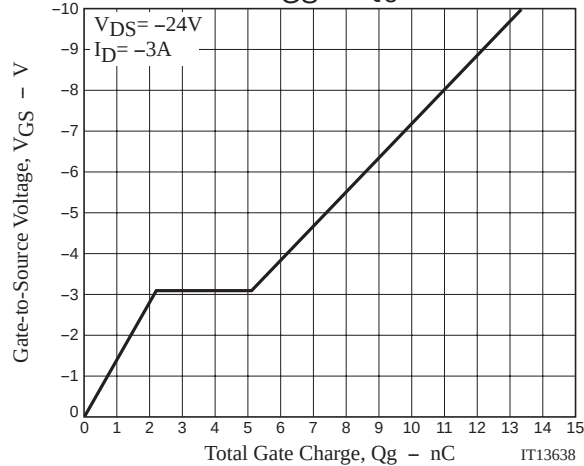
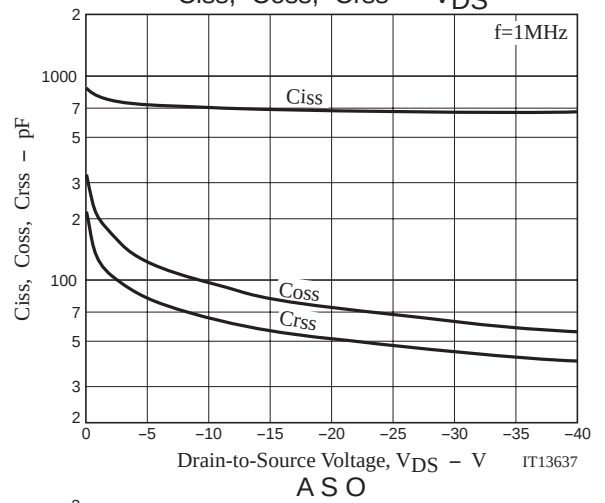
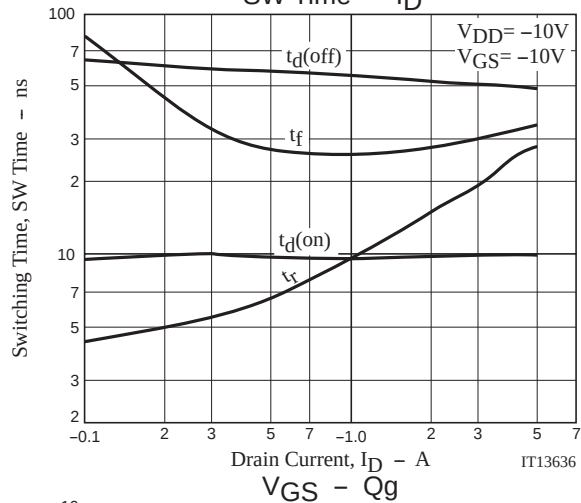
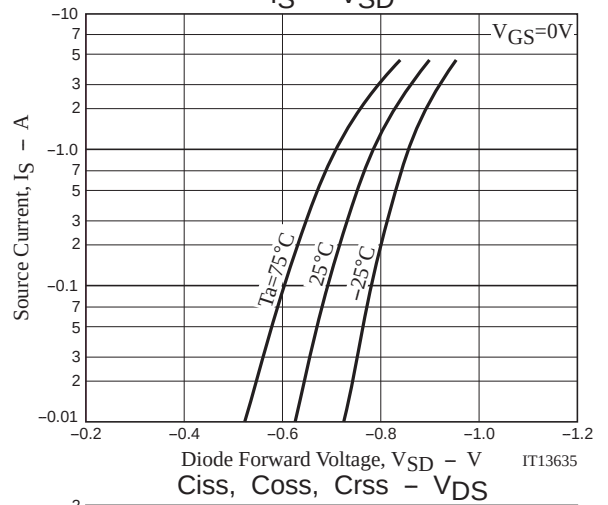
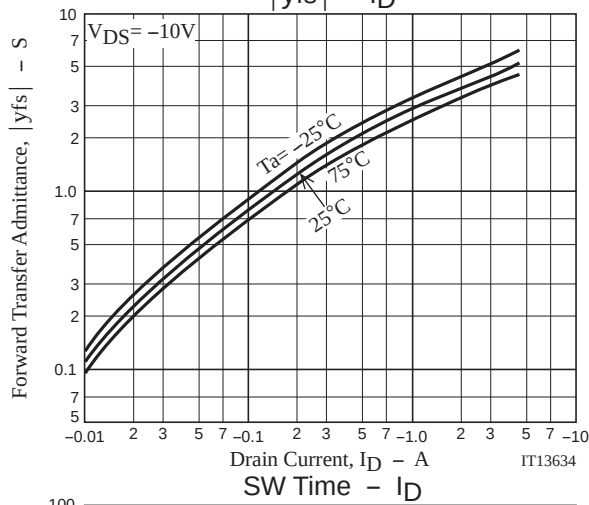
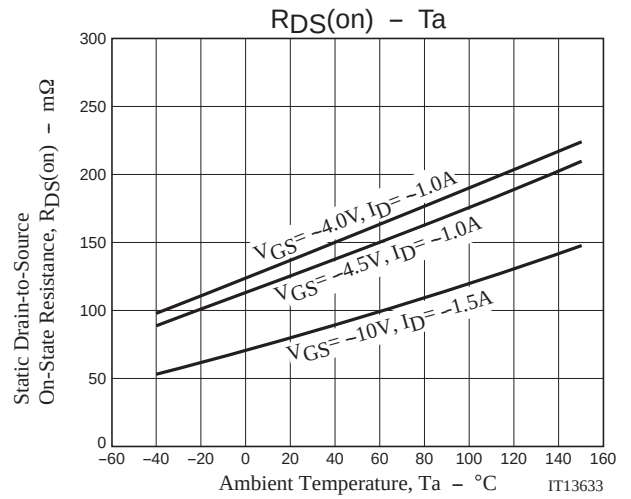
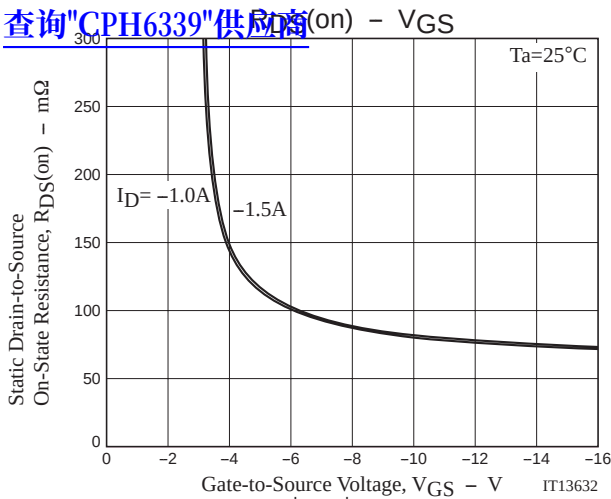
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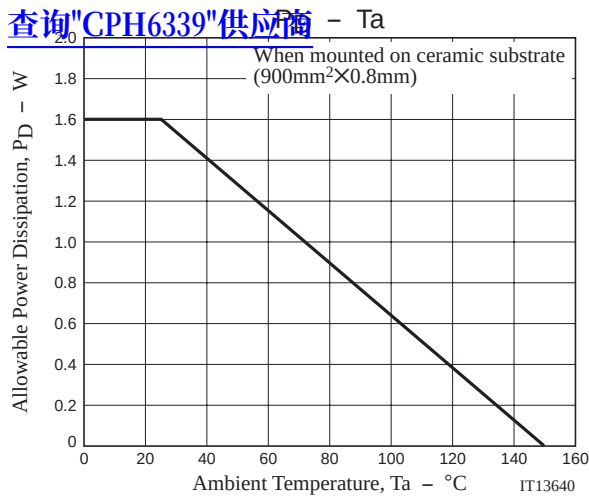
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Note on usage : Since the CPH6339 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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