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Text Size

Site Search

HOME, Products > Discrete Semiconductors > Transistors > Complex Transistors > SP8M51

- ICs
- Discrete Semiconductors
- Transistors**
- MOSFETs
- Bipolar Transistors
- Digital Transistors
- Complex Transistors
- Diodes

- Opto Electronics
- Passive Components
- Modules (Sub Systems)

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Product Information →

## 4V Drive Nch+Pch MOSFET

SP8M51 **NEW**

Inquiries concerning our products

Data Sheet	Design Model
<a href="#">Reliability information</a>	<a href="#">Operation notes</a>
<a href="#">Condition of soldering</a>	

[Print out](#)

[ Product description ]

Complex type MOSFETs(P+N) are made as low ON-resistance devices by the micro-processing technologies useful for wide range of applications. Broad lineup covering compact types, high-power types and complex types to meet various needs in the market.

### Features

- 4V-drive type Nch+Pch Middle-power MOSFET

### Product specifications

Absolute maximum ratings (Ta=25°C)		
Rated parameters	Standard value	Conditions
Drain-Source voltage $V_{DSS}(V)$	100	
Gate-Source voltage $V_{GSS}(V)$	±20	
Drain current(continuous) $I_D(A)$	±3	
Source current(body Di) $I_S(A)$	1	
Total power dissipation $P_D(W)$	2	Mounted on a ceramic board
Channel temperature $T_{ch}(°C)$	150	
Storage temperature $T_{stg}(°C)$	-55 to +150	

Absolute maximum ratings (Ta=25°C)		
Rated parameters	Standard value	Conditions
Drain-Source voltage $V_{DSS}(V)$	-100	
Gate-Source voltage $V_{GSS}(V)$	±20	
Drain current(continuous) $I_D(A)$	±2.5	
Source current(body Di) $I_S(A)$	-1	
Total power dissipation $P_D(W)$	2	Mounted on a ceramic board
Channel temperature $T_{ch}(°C)$	150	
Storage temperature $T_{stg}(°C)$	-55 to +150	

\*The contents described here are just outline for introduction.

Please obtain the specification sheets from us for thorough check before use.

### Status Product

Part No.	Package	Status *1	RoHS	Packing style	Package quantity	Samples *2	Sales
SP8M51TB	SOP8	Active	Yes	Taping	2500		<a href="#">Inquiry</a>

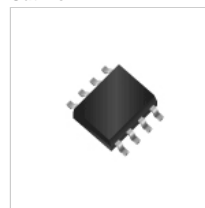
\*1 Active: Production or current type Preparation: Preliminary type Preview: Development type

\*2 Display ranks are representative hFE rank. Please understand that selection of hFE rank is not possible.

### Others

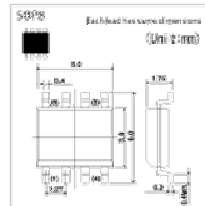
Please check the details on "[Product List](#)" for Others.

### Outline



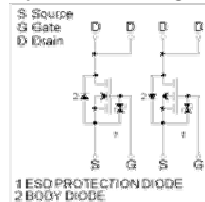
SOP8

### Dimensions



\* Click to enlarge.

### Equivalent circuit diagram



### Transistors

**2010.07.21**  
The industry's highest efficiency MOSFETs for DC/DC power supplies: ECOMOS™

**2010.02.25**  
ROHM's ultra-low voltage drive MOSFETs - ECOMOS™ - enable driving from a control voltage of 0.9V

**2010.01.22**  
ROHM continues to offer its lineup of ultra-low voltage MOSFETs ECOMOS™ series

**2009.05.29**  
High speed trr High Voltage Resistance PrestoMOS™ Series

**2009.02.27**  
ROHM's new RC series of 250V MOSFETs

[Precautions for driving TRs safety](#)

[Knowledge required for the die temp. calculation](#)

[What is a transistor?](#)

Operation notes

Part No. explanation

Package

Taping specifications

Soldering conditions  
>Surface mounted type transistors  
>Leaded type transistors

Storage conditions

Explanation of symbols

FAQ

ROHM Internet Direct Shopping

RoHS directive compliance

Contact us