


[简体中文](#) | [繁體中文](#) | [한국어](#) | [日本語](#)
Text Size [A](#) [A](#)

Site Search

Search

Site Map


HOME, Products &gt; Discrete Semiconductors &gt; Transistors &gt; Complex Transistors &gt; SP8M51

ICs
Discrete Semiconductors
<b>Transistors</b>
MOSFETs
Bipolar Transistors
Digital Transistors
Complex Transistors
Diodes
Opto Electronics
Passive Components
Modules (Sub Systems)



## 4V Drive Nch+Pch MOSFET

SP8M51 **NEW**[Inquiries concerning our products](#)

 Data Sheet		Design Model
Reliability information	Operation notes	Condition of soldering

[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 $V_{DS}$ (V)	100	
Gate-Source voltage $V_{GS}$ (V)	$\pm 20$	
Drain current(continuous) $I_D$ (A)	$\pm 3$	
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 $V_{DS}$ (V)	-100	
Gate-Source voltage $V_{GS}$ (V)	$\pm 20$	
Drain current(continuous) $I_D$ (A)	$\pm 2.5$	
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>

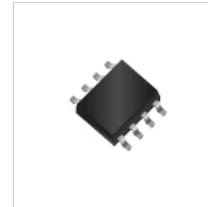
\*1 Active: Production or current type Preparation: Preliminary type Preview: Development type

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

### Others

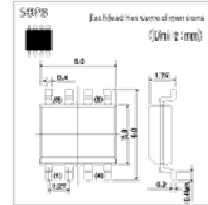
Please check the details on ["Product List"](#) for Others.

### Outline



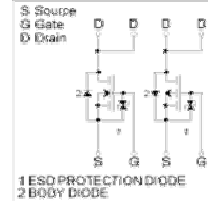
SOP8

### 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](#)