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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 $V_{DSS}(V)$	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 $T_{ch}(^{\circ}C)$	150	
Storage temperature $T_{stg}(^{\circ}C)$	-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 $T_{ch}(^{\circ}C)$	150	
Storage temperature $T_{stg}(^{\circ}C)$	-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		Inquiry

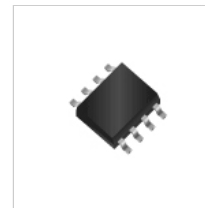
*1 Active: Production or current type Preparation: Preliminary type Preview: Development type

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

Others

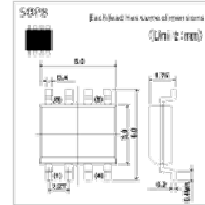
Please check the details on "[Product List](#)" for Others.

Outline



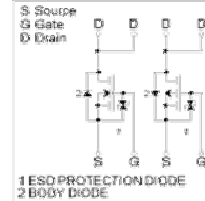
SOP8

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
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- RoHS directive compliance
- Contact us