


OR Controller P-channel Single 0.18Ohm 6-Pin SC-70 T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SC70-6
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The LM66100 is a Single-Input, Single-Output (SISO) integrated ideal diode that is well suited for a variety of applications. The device contains a P-channel MOSFET that can operate over an input voltage range of 1.5 V to 5.5 V and can support a maximum continuous current of 1.5 A.

The chip enable works by comparing the CE pin voltage to the input voltage. When the CE pin voltage is higher than VIN, the device is disabled and the MOSFET is off. When the CE pin voltage is lower, the MOSFET is on. The LM66100 also comes with reverse polarity protection (RPP) that can protect the device from a miswired input, such as a reversed battery.

Two LM66100 devices can be used in an ORing configuration similar to a dual diode ORing implementation. In this configuration, the devices pass the highest input voltage to the output while blocking reverse current flow into the input supplies. These devices can compare input and output voltages to make sure that reverse current is blocked through an internal voltage comparator.

The LM66100 is available in a standard SC-70 package characterized for operation over a junction temperature range of -40°C to 125°C.

Key Features

Wide operating voltage range: 1.5 V – 5.5 V

Reverse voltage standoff on VIN: –6-V absolute maximum

Maximum continuous current (IMAX): 1.5 A

On-Resistance (RON):

5-V VIN = 79-mΩ (typical)

3.6-V VIN = 91-mΩ (typical)

1.8-V VIN = 141-mΩ (typical)

Comparator chip enable (CE pin voltage is lower, the MOSFET is on. The LM66100 also comes with reverse polarity protection (RPP) that can protect the device from amisswired input, such as a reversed battery.

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Recommended For You

LM2637M

Texas Instruments, Inc

SOP24

LM5116MH

Texas Instruments, Inc

TSSOP20

LM234Z-3

Texas Instruments, Inc

TO-92

LM27761DSGR

Texas Instruments, Inc

WSO8

LM74700QDBVRQ1

Texas Instruments, Inc

SOT23-6

LM2991S

Texas Instruments, Inc

TO-263

LM74800QDRRRQ1

Texas Instruments, Inc

WSO8-12

LMR14030SDDAR

Texas Instruments, Inc

SOP8

LM2940CT-12

Texas Instruments, Inc

TO-220

LM536035QPWPTQ1

Texas Instruments, Inc

HTSSOP-16

LM5575MH

Texas Instruments, Inc

TSSOP16

LM536013QDSXTQ1

Texas Instruments, Inc

WSO8-10

LM5160QPWPRQ1

Texas Instruments, Inc

HTSSOP14

LM5576MH

Texas Instruments, Inc

TSSOP20

LMQ61460AFSQRJRRQ1

Texas Instruments, Inc

VQFN-14