

# DIO7063

## 5.5V Low Loss Power Distribution Switch

### Features

- Input voltage: 2.7V to 5.5V
- Enable polarity:  
 DIO7063A: Active high  
 DIO7063B: Active Low
- Over temperature protection
- Reverse blocking (no body diode)
- OUT can be forced higher than IN at shutdown
- Compact SOT23-5 and MSOP-8 package

### Applications

- USB Ports/Hubs
- Digital TV
- Set-Top Boxes
- VOIP Phones

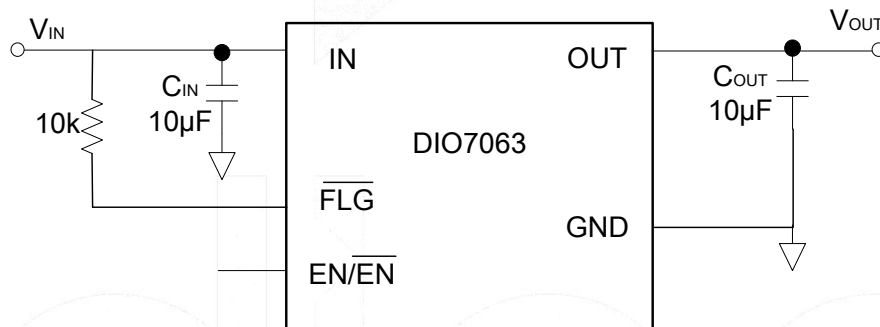
### Descriptions

The DIO7063 power distribution switch is intended for applications where precision current limiting is required or heavy capacitive loads and short circuits are encountered. The power switch rising and falling times are controlled to minimize current surges during turning on/off. The DIO7063 provide 0.9A continuous current modes.

The DIO7063 device limits the output current under a safe level by using a constant current mode when the output load exceeds the current limit threshold.

The DIO7063 is available in the SOT23-5 and MSOP-8 packages. It is rated over the -40°C to +85°C temperature range.

### Block Diagram



### Ordering Information

Order Part Number	Top Marking	Recommended Continuous Current		EN/EN	Package	
DIO7063AST5	YW6A	900mA	Green	Active High	SOT23-5	Tape & Reel, 3000
DIO7063BST5	YW6B	900mA	Green	Active Low	SOT23-5	Tape & Reel, 3000
DIO7063AMP8	D63A	900mA	Green	Active High	MSOP-8	Tape & Reel, 3000
DIO7063BMP8	D63B	900mA	Green	Active Low	MSOP-8	Tape & Reel, 3000



# DIO7063

5.5V Low Loss Power Distribution Switch

## Ordering Information Complimentary Note

Ordering number = Part No. + Enable Active Version + Package Code

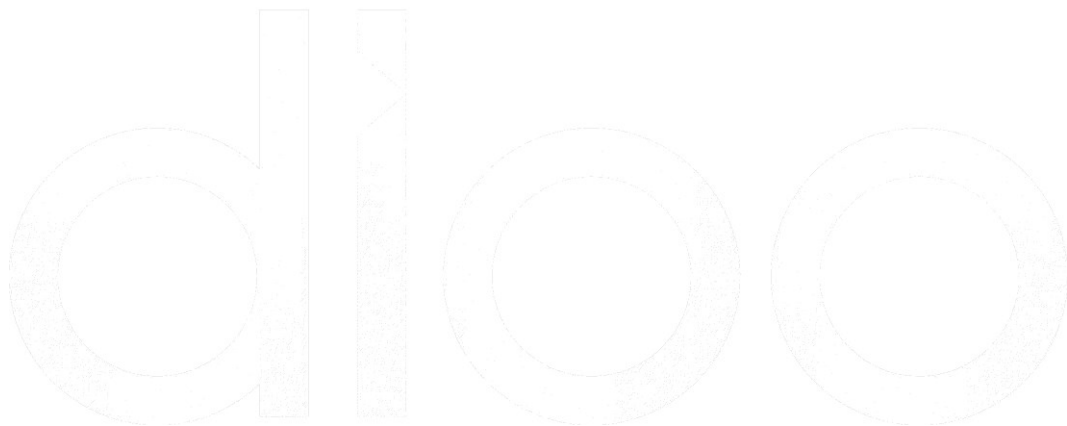
DIO7063

A: Enable Active High

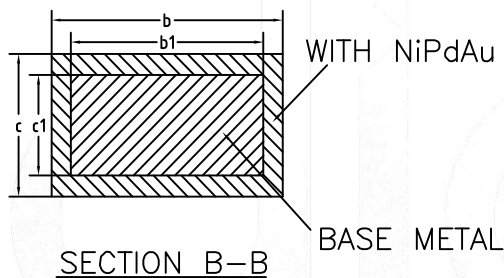
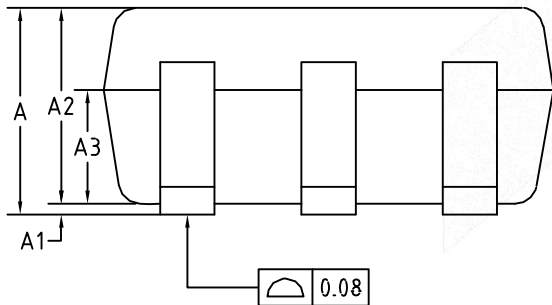
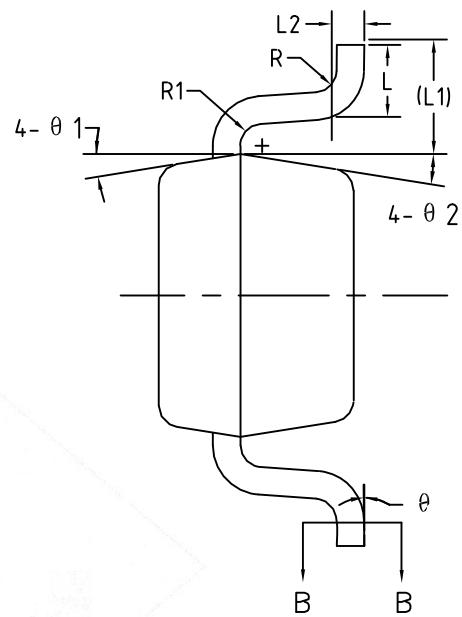
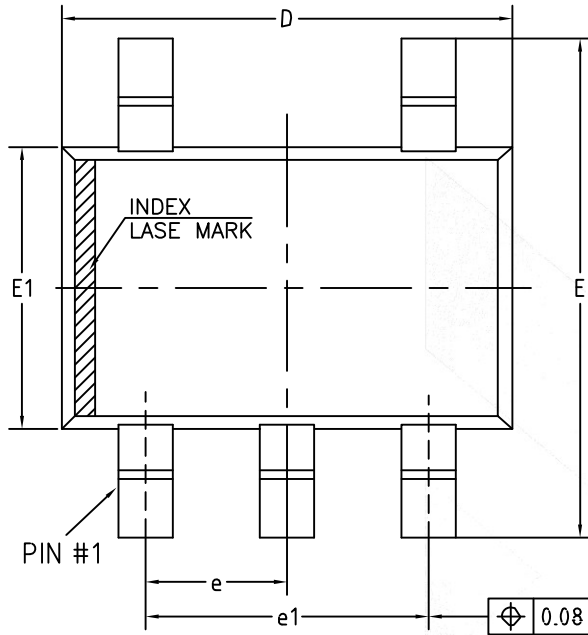
B: Enable Active Low

ST5: Stands for SOT23-5

MP8: Stands for MSOP-8

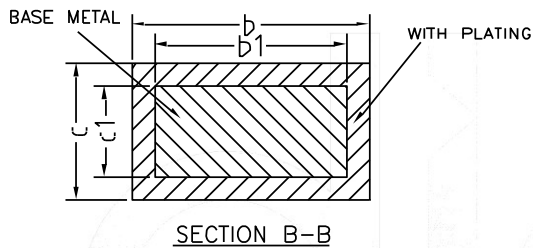
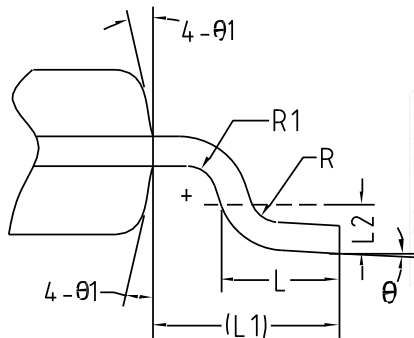
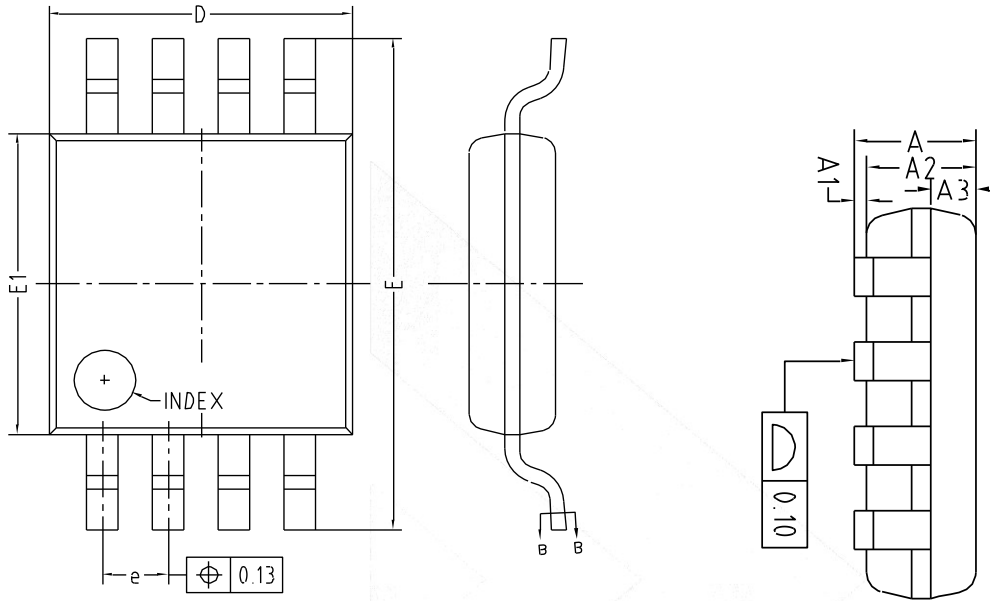


Physical Dimensions: SOT23-5



COMMON DIMENSIONS (UNITS OF MEASURE=MILLIMETER)			
Symbol	MIN	NOM	MAX
A	-	-	1.25
A1	0	-	0.15
A2	1.00	1.10	1.20
A3	0.60	0.65	0.70
b	0.36	-	0.50
b1	0.36	0.38	0.45
c	0.14	-	0.20
c1	0.14	0.15	0.16
D	2.826	2.926	3.026
E	2.60	2.80	3.00
E1	1.526	1.626	1.726
e	0.90	0.95	1.00
e1	1.80	1.90	2.00
L	0.35	0.45	0.60
L1	0.59REF		
L2	0.25BSC		
R	0.10	-	-
R1	0.10	-	0.25
theta	0°	-	8°
theta1	3°	5°	7°
theta2	6°	-	14°

Physical Dimensions: MSOP-8



COMMON DIMENSIONS (UNITS OF MEASURE=MILLIMETER)			
Symbol	MIN	NOM	MAX
A	-	-	1.10
A1	0	-	0.15
A2	0.75	0.85	0.95
A3	0.25	0.35	0.39
b	0.28	-	0.37
b1	0.27	0.30	0.33
c	0.15	-	0.20
c1	0.14	0.15	0.16
D	2.90	3.00	3.10
E	4.70	4.90	5.10
E1	2.90	3.00	3.10
e	0.55	0.65	0.75
L	0.40	0.60	0.80
L1	0.95REF		
L2	0.25BSC		
R	0.07	-	-
R1	0.07	-	-
θ	0°	-	8°
θ1	9°	12°	15°



DIO7063

5.5V Low Loss Power Distribution Switch

## CONTACT US

Dioo is a professional design and sales corporation for high-quality and performance analog semiconductors. The company focuses on industry markets, such as, cell phone, handheld products, laptop, and medical equipment and so on. Dioo's product families include analog signal processing and amplifying, LED drivers and charger IC. Go to <http://www.dioo.com> for a complete list of Dioo product families.

For additional product information, or full datasheet, please contact with our Sales Department or Representatives.

