

# Best Selection



Delivers large current in a smaller form factor (DFN1616/2020 packages)

## MOSFETs Optimized for Portable Devices

RW4xx (P<sub>w</sub>=1.5W DFN1616-7T) / RF4xx (P<sub>w</sub>=2W DFN2020-8S) / UT6xx (P<sub>w</sub>=2W DFN2020-8D) series

- RW4xx series Feature 1  
Compact space-saving design allows designers to use a smaller package

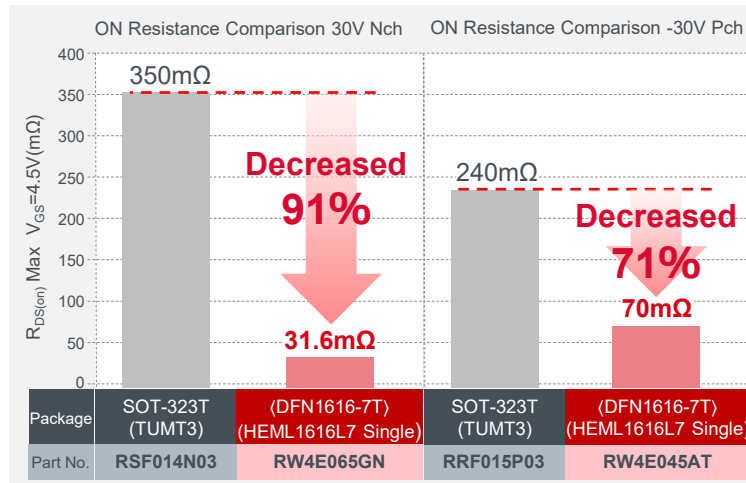
**SOT-323T (TUMT3)**  
**SOT-363T (TUMT6)**  
**(DFN1616-7T) (HEML1616L7 Single)**

2.0×2.1 t=0.77 (mm)  
 4.2mm<sup>2</sup>

1.6×1.6 t=0.55 (mm)  
 2.6mm<sup>2</sup>

**Compact package reduces mounting area by up to 38%**

- RW4xx series Feature 2  
Achieves ultra-low ON resistance (R<sub>DS(on)</sub>)



- MOSFETs Ideal for Compact Applications


- Portables (smartphones, handheld gaming consoles)
- Tablets, PC peripherals, etc.
- Healthcare (shavers, wearables)



- Applicable Circuits

LiB peripheral circuits, load switches, etc.

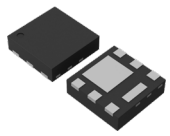
- RW4xx series

Part No.	Polarity (ch)	P <sub>w</sub> (W) T <sub>a</sub> =25°C	V <sub>DSS</sub> (V)	I <sub>D</sub> (A) T <sub>a</sub> =25°C	R <sub>DS(on)</sub> Max (mΩ)				Q <sub>g</sub> (nC) V <sub>GS</sub> =4.5V	Package
					V <sub>GS</sub> =10V	V <sub>GS</sub> =4.5V	V <sub>GS</sub> =2.5V	V <sub>GS</sub> =1.8V		
<b>RW4E075AJ</b> <a href="#">Web Page</a>	N	1.5	30	7.5	—	26	38	—	6.3	 (DFN1616-7T) (HEML1616L7 Single) 1.6×1.6×0.55mm
<b>RW4E045AJ</b> <a href="#">Web Page</a>			30	4.5	—	40	58	—	4.0	
<b>RW4E065GN</b> <a href="#">Web Page</a>			30	6.5	22.5	31.6	—	—	2.1	
<b>RW4C045BC</b> <a href="#">Web Page</a>	P	—	-20	-4.5	—	56	74	117	6.5	
<b>RW4E045AT</b> <a href="#">Web Page</a>			-30	-4.5	48	70	—	—	5.3	

Note: Indicates the JEDEC package notation. ( ) denotes general code, ( ) refers to ROHM's package code.

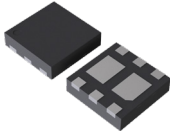
## ■ Compact High Power (2W) DFN2020-8 Package Ideal for Portable Devices

### Single Type: RF4xx series (Large current capability ideal for power circuit switching)

Part No.	Polarity (ch)	P <sub>W</sub> (W) T <sub>a</sub> =25°C	V <sub>DSS</sub> (V)	I <sub>D</sub> (A) T <sub>a</sub> =25°C	R <sub>DS(on)</sub> Max (mΩ)					Qg(nC) V <sub>GS</sub> =4.5V	Package		
					V <sub>GS</sub> =10V	V <sub>GS</sub> =4.5V	V <sub>GS</sub> =2.5V	V <sub>GS</sub> =1.8V	V <sub>GS</sub> =1.5V				
RF4E100AJ <a href="#">Web Page</a>	N	2.0	30	10	—	12.4	17.9	—	—	13	 (DFN2020-8S) (HUML2020L8 Single) 2.0×2.0×0.6mm		
RF4E110BN <a href="#">Web Page</a>				11	11.1	15.4	—	—	12				
<b>New</b> RF4G100BG <a href="#">Web Page</a>				10	14.2	23	—	—	5				
<b>New</b> RF4L070BG <a href="#">Web Page</a>				7	27	40	—	—	3.9				
RF4C100BC <a href="#">Web Page</a>	P			2.0	-20	-10	—	15.6	20	37.6		—	23.5
RF4C050AP <a href="#">Web Page</a>						-10	—	26	31	45		65	55
RF4E075AT <a href="#">Web Page</a>						-7.5	21.7	31.7	—	—		11	
RF4G060AT <a href="#">Web Page</a>						-6	40	51	—	—		8.5	
RF4L040AT <a href="#">Web Page</a>		2.0	-60			-4	89	100	—	—	—	8.5	

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### Dual Type: UT6xx series (Broad drive voltage lineup offered in a space-saving 2-in-1 package)

Part No.	Polarity (ch)	P <sub>W</sub> (W) T <sub>a</sub> =25°C	V <sub>DSS</sub> (V)	I <sub>D</sub> (A) T <sub>a</sub> =25°C	R <sub>DS(on)</sub> Max (mΩ)					Qg(nC) V <sub>GS</sub> =4.5V	Package		
					V <sub>GS</sub> =10V	V <sub>GS</sub> =4.5V	V <sub>GS</sub> =2.5V	V <sub>GS</sub> =1.8V	V <sub>GS</sub> =1.5V				
UT6K3 <a href="#">Web Page</a>	N+N	2.0	30	5.5	—	42	63	—	—	4.0	 (DFN2020-8D) (HUML2020L8 Dual) 2.0×2.0×0.6mm		
<b>New</b> UT6KB5 <a href="#">Web Page</a>				5	40	80	—	—	1.8				
<b>New</b> UT6KC5 <a href="#">Web Page</a>				3.5	95	145	—	—	1.7				
UT6JA3 <a href="#">Web Page</a>	P+P			2.0	-20	-5	—	59	76	118		—	6.5
UT6J3 <a href="#">Web Page</a>						-3	—	85	95	155		260	8.5
UT6JA2 <a href="#">Web Page</a>						-4	70	103	—	—		3.4	
UT6JB5 <a href="#">Web Page</a>						-3.5	122	155	—	—		3.3	
UT6MA3 <a href="#">Web Page</a>	N+P					2.0	20	5.5	—	42		63	—
		-5	—					59	76	—	—	6.5	
UT6MA2 <a href="#">Web Page</a>		30	46					80	—	—	2.2		
		-4	70					103	—	—	3.3		

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The information contained in this document is current as of October 1st, 2021.