Best Selection

Industrial & General Purpose | Consumer & Home Appliance | Automotive | PC/Smart devices

Tr

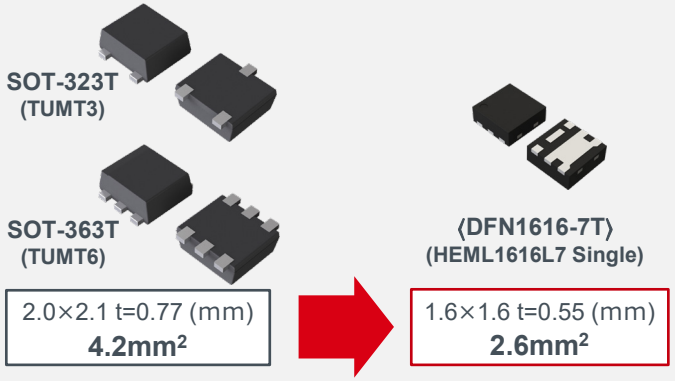
ROHM SEMICONDUCTOR

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

MOSFETs Optimized for Portable Devices

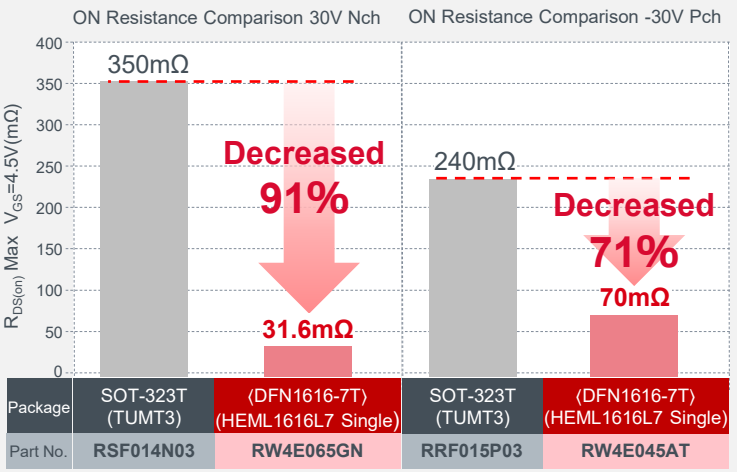
RW4xx (Pw=1.5W DFN1616-7T) /RF4xx (Pw=2W DFN2020-8S) /UT6xx (Pw=2W DFN2020-8D) series

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



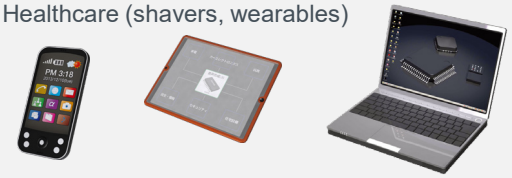
Compact package reduces mounting area by up to 38%

RW4xx series Feature 2
Achieves ultra-low ON resistance ($R_{DS[on]}$)



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

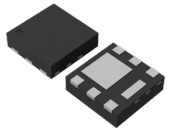
Part No.	Polarity (ch)	PW (W) T_a=25°C	V_{DSS} (V)	I_D(A) T_a=25°C	$R_{DS(on)}$ Max (mΩ) V_{GS}=10V	$R_{DS(on)}$ Max (mΩ) V_{GS}=4.5V	$R_{DS(on)}$ Max (mΩ) V_{GS}=2.5V	$R_{DS(on)}$ Max (mΩ) V_{GS}=1.8V	Qg (nC) V_{GS}=4.5V	Package
RW4E075AJ	N	1.5	30	7.5	—	26	38	—	6.3	〈DFN1616-7T〉 (HEML1616L7 Single) 1.6×1.6×0.55mm
RW4E045AJ			30	4.5	—	40	58	—	4.0	
RW4E065GN			30	6.5	22.5	31.6	—	—	2.1	
RW4C045BC	P		-20	-4.5	—	56	74	117	6.5	
RW4E045AT			-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)

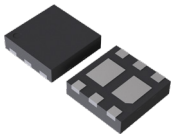
Part No.	Polarity (ch)	P_W(W) T_a=25℃	V_{DSS} (V)	I_D(A) T_a=25℃	$R_{DS(on)}$ Max (mΩ)					Qg(nC) V_{GS}=4.5V	Package
					V_{GS}=10V	V_{GS}=4.5V	V_{GS}=2.5V	V_{GS}=1.8V	V_{GS}=1.5V		
RF4E100AJ	N	2.0	30	10	—	12.4	17.9	—	—	13	〈DFN2020-8S〉 (HUML2020L8 Single) 2.0×2.0×0.6mm
RF4E110BN			30	11	11.1	15.4	—	—	—	12	
New RF4G100BG			40	10	14.2	23	—	—	—	5	
New RF4L070BG			60	7	27	40	—	—	—	3.9	
RF4C100BC	P		-20	-10	—	15.6	20	37.6	—	23.5	
RF4C050AP			-20	-10	—	26	31	45	65	55	
RF4E075AT			-30	-7.5	21.7	31.7	—	—	—	11	
RF4G060AT			-40	-6	40	51	—	—	—	8.5	
RF4L040AT			-60	-4	89	100	—	—	—	8.5	



Note: 〈 〉denotes general code, ( ) refers to ROHM's package code.

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

Part No.	Polarity (ch)	P_W(W) T_a=25℃	V_{DSS} (V)	I_D(A) T_a=25℃	$R_{DS(on)}$ Max (mΩ)					Qg(nC) V_{GS}=4.5V	Package
					V_{GS}=10V	V_{GS}=4.5V	V_{GS}=2.5V	V_{GS}=1.8V	V_{GS}=1.5V		
UT6K3	N+N	2.0	30	5.5	—	42	63	—	—	4.0	〈DFN2020-8D〉 (HUML2020L8 Dual) 2.0×2.0×0.6mm
New UT6KB5			40	5	40	80	—	—	—	1.8	
New UT6KC5			60	3.5	95	145	—	—	—	1.7	
UT6JA3	P+P		-20	-5	—	59	76	118	—	6.5	
UT6J3			-20	-3	—	85	95	155	260	8.5	
UT6JA2			-30	-4	70	103	—	—	—	3.4	
UT6JB5			-40	-3.5	122	155	—	—	—	3.3	
UT6MA3	N+P		20	5.5	—	42	63	—	—	4.0	
			-20	-5	—	59	76	—	—	6.5	
UT6MA2			30	4	46	80	—	—	—	2.2	
			-30	-4	70	103	—	—	—	3.3	



Note: 〈 〉denotes general code, ( ) refers to ROHM's package code.

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