

VRRM	IF (TC≤135℃)	QC
650V	6A	9nC

Applications:

- Switch Mode Power Supplies
- Power Factor Correction
- Motor drive, PV Inverter, Wind Power Station

Features:

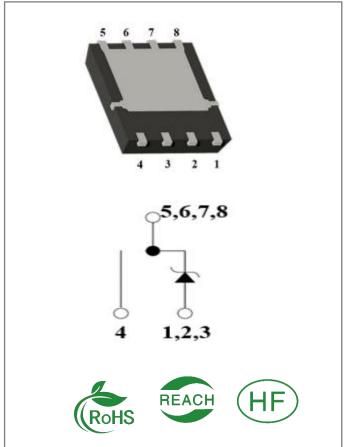
- Zero Reverse Recovery Current
- Zero Forward Recovery Voltage
- Positive Temperature Coefficient on VF
- Temperature-independent Switching
- 175°C Operating Junction Temperature

Benefits:

- Replace Bipolar with Unipolar Device
- Reduction of Heat Sink Size
- Parallel Devices Without Thermal Runaway
- Essentially No Switching Losses

Ordering Information

Part Number	Package	Marking	Packing	Qty.
RSS04065G	DFN5*6	RSS04065G	Tape&reel	5000 PCS





Symbo I	Parameter	Valu e	Unit	Test Conditions	Not e
VRRM	Repetitive Peak Reverse Voltage	650	V	TC = 25 ℃	
VRSM	Surge Peak Reverse Voltage	650	V	TC = 25 ℃	
VR	DC Blocking Voltage	650	V	TC = 25 ℃	
IF	Forward Current	13 6 4	А	TC ≤ 25℃ TC ≤ 135℃ TC ≤ 148℃	
IFSM	Non-Repetitive Forward Surge Current	30 20	A	TC = 25℃, tp = 10ms, Half Sine Wave TC = 110℃, tp = 10ms, Half Sine Wave	
IFRM	Repetitive Peak Forward Surge Current	20	А	TC = 25° C, tp = 10ms, Half Sine Wave	
Ptot	Power Dissipation	50	W	TC = 25℃	
тс	Maximum Case Temperature	148	°C		
TJ,TST G	Operating Junction and Storage Temperature	-55 to17 5	°C		

Maximum Ratings (TJ= 25° C unless otherwise specified)

Electrical Characteristics (TJ= 25° C unless otherwise specified)

Symbo I	Parameter	Тур.	Max	Unit	Test Conditions	Note
VF	Forward Voltage	1.45 1.7	1.7 -	V	IF = 4A, TJ = 25℃ IF = 4A, TJ = 175℃	
IR	Reverse Current	2 10	50 -	μA	VR = 650V, TJ = 25℃ VR = 650V, TJ = 175℃	
С	Total Capacitance	230 24 20	/	pF	VR = 1V, TJ = 25°C, f = 1MHz VR = 200V, TJ = 25°C, f = 1MHz VR = 400V, TJ = 25°C, f = 1MHz	
QC	Total Capacitive Charge	9	/	nC	VR =400V,	

Thermal Characteristics (TJ= 25°C unless otherwise specified)

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	2.9	°C/W	



Typical Feature Curve

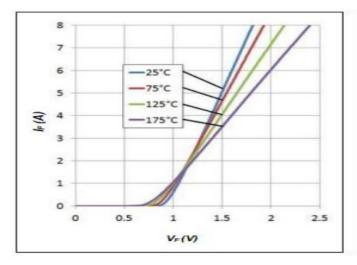


Figure1. ForwardCharacteristics

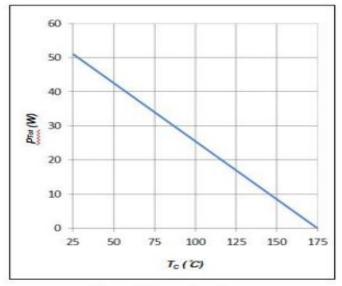


Figure 3. Power Derating

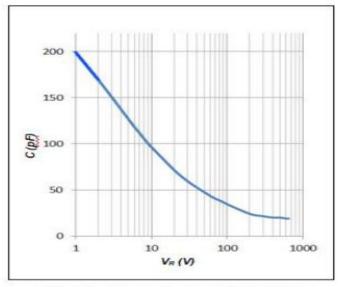


Figure 5. Total Capacitance vs. Reverse Voltage

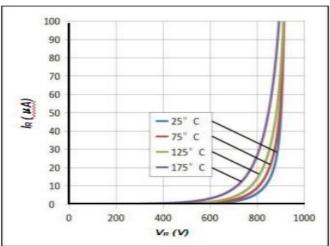
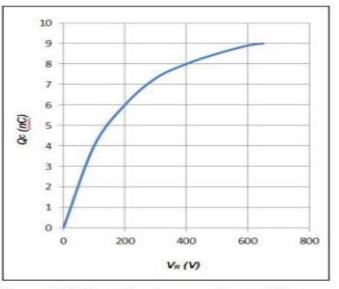
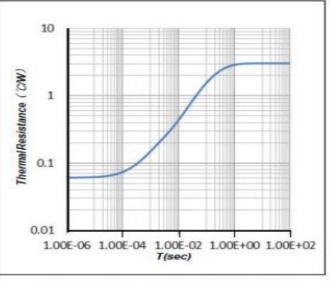


Figure 2. ReverseCharacteristics





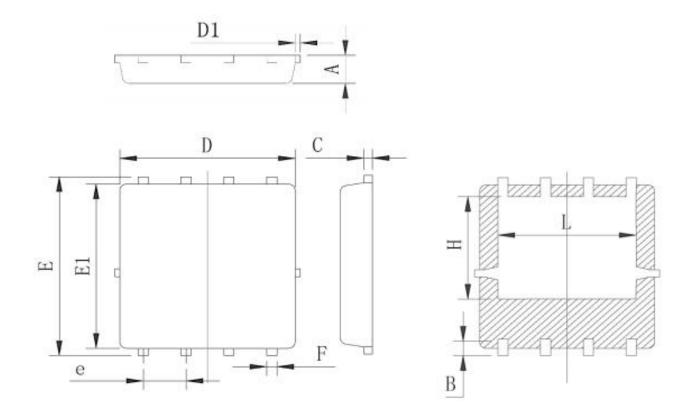




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Package outline drawing(DFN5*6 Unit: mm)



0.95	
0.95	1.00
0.58	0.68
0.254	0.30
5.20	5.40
	0.15
6.05	6.20
5.55	5.70
1.27	1.32
0.30	0.35
3.47	3.67
4.00	4.20
	0.58 0.254 5.20 6.05 5.55 1.27 0.30 3.47



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