

VRRM	IF (TC≤135°C)	QC
650V	9A	18nC

Applications:

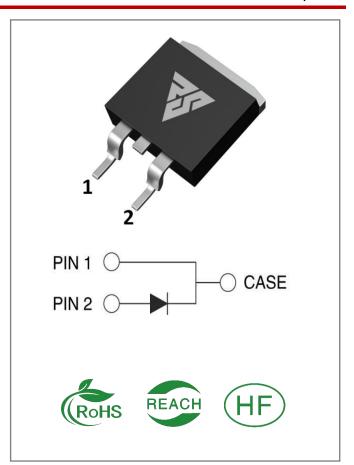
- Switch Mode Power Supplies
- Power Factor Correction
- Motor drive, PV Inverter, Wind Power Station

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.
RSS06065S	TO-263	RSS06065S	Tape&reel	800 PCS



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

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	20 9 6	А	TC ≤ 25°C TC ≤ 135°C TC ≤ 153°C	Fig.
IFSM	Non-Repetitive Forward Surge Current	66 57	А	TC = 25° C, tp = 10ms, Half Sine Wave TC = 110° C, tp = 10ms, Half Sine Wave	
IFRM	Repetitive Peak Forward Surge Current	60	Α	TC = 25° C, tp = 10ms, Half Sine Wave	
Ptot	Power Dissipation	87	W	TC = 25℃	Fig. 4
TC	Maximum Case Temperature	153	$^{\circ}$		
TJ,TST G	Operating Junction and Storage Temperature	-55 to17 5	$^{\circ}\!\mathbb{C}$		

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

Symbo I	Parameter	Тур.	Max	Unit	Test Conditions	Note
VF	Forward Voltage	1.34 1.67	1.5 -	٧	IF = 6A, TJ = 25°C IF = 6A, TJ = 175°C	Fig.1
IR	Reverse Current	1.2 4.5	50 -	μΑ	VR = 650V, TJ = 25°C VR = 650V, TJ = 175°C	Fig.2
С	Total Capacitance	261 35 33	/	pF	VR = 1V, TJ = 25° C, f = 1MHz VR = 200V, TJ = 25° C, f = 1MHz VR = 400V, TJ = 25° C, f = 1MHz	Fig.5
QC	Total Capacitive Charge	18	/	nC	VR =400V,	Fig.6
Ec	Capacitance Stored Energy	2.9		uJ	VR =400V,	Fig.7

Thermal Characteristics (TJ= 25 ℃ unless otherwise specified)

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	1.73	°C/W	Fig.8

Typical Feature Curve

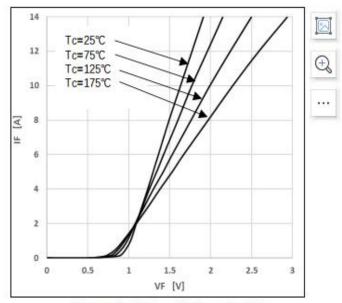


Figure 1 Forward Characteristics

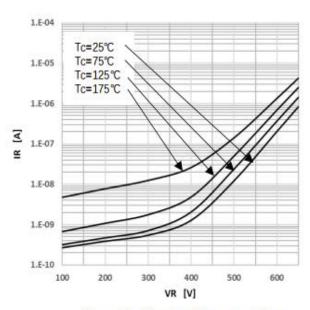


Figure 2 Reverse Characteristics

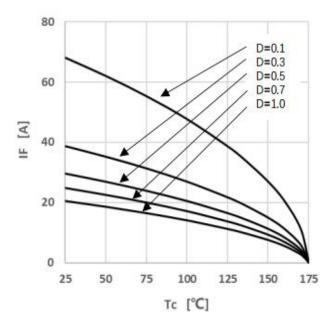


Figure 3 Peak Forward Current Derating

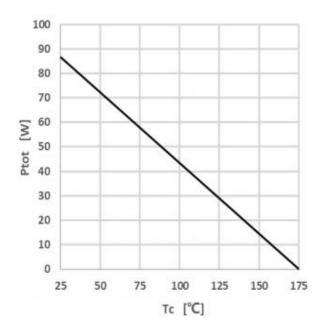


Figure 4 Power Dissipation

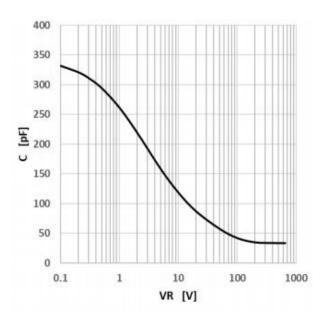


Figure 5 Capacitance vs. Reverse Voltage

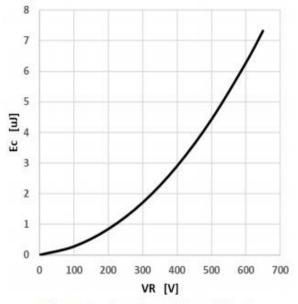


Figure 7 Capacitance Stored Energy

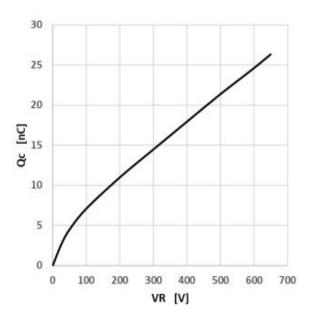


Figure 6 Capacitance Charge vs. Reverse Voltage

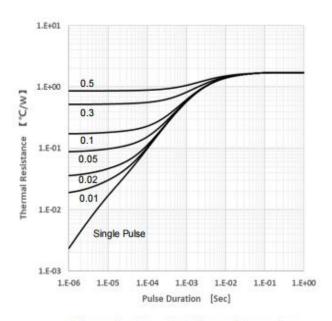
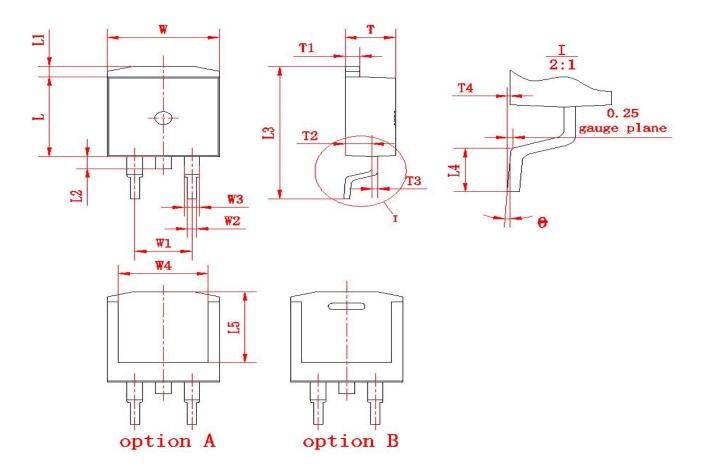


Figure 8 Transient Thermal Impedance



Package outline drawing(TO-263 Unit: mm)



(单位: mm)

符号	尺寸		<i>የተ</i> 🗆	尺寸		かロ	尺寸	
गिर्	Min	Max	符号	Min	Max	符号	Min	Max
W	9. 80	10. 20	L1	1.00	1.40	T1	1. 20	1.40
W1	(5.	08)	L2	1. 20	1.60	T2	2. 20	2. 60
W2	0. 70	0. 95	L3	15. 00	15. 60	T3	0. 45	0. 65
W 3	1. 17	1. 62	L4	2. 20	2. 80	T4	0	0. 25
W 4	(8	. 0)	L5	(8. 2)		θ	0°	8°
L	9.00	9. 40	T	4. 30	4. 70			



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