

VRRM	IF (TC≤135℃)	QC	
650V	29A	62nC	

Applications:

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

Features:

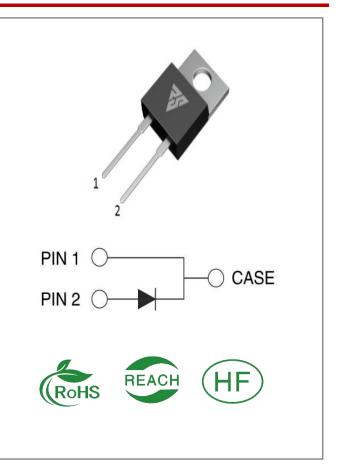
- Zero Reverse Recovery Current
- Zero Forward Recovery Voltage
- Positive Temperature Coefficient on VF
- Temperature-independent Switching
- 175°C Operating Junction Temperature

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.
RSS20065A	TO-220-2	RSS20065A	Tube	50 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	62 29 20	А	TC ≤ 25 ℃ TC ≤ 135 ℃ TC ≤ 154 ℃	Fig. 3
IFSM	Non-Repetitive Forward Surge Current	172 156	A	TC = 25℃, tp = 10ms, Half Sine Wave TC = 110℃, tp = 10ms, Half Sine Wave	
IFRM	Repetitive Peak Forward Surge Current	164	А	TC = 25℃, tp = 10ms, Half Sine Wave	
Ptot	Power Dissipation	258	W	TC = 25℃	Fig. 4
ТС	Maximum Case Temperature	154	°C		
TJ,TST G	Operating Junction and Storage Temperature	-55 to17 5	°C		

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

Symbo I	Parameter	Тур.	Max	Unit	Test Conditions	Note
VF	Forward Voltage	1.35 1.7	1.6 -	V	IF = 20A, TJ = 25℃ IF = 20A, TJ = 175℃	Fig.1
IR	Reverse Current	6 15	100 -	μA	VR = 650V, TJ = 25℃ VR = 650V, TJ = 175℃	Fig.2
С	Total Capacitance	906 122 118	/	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	62	/	nC	VR =400V,	Fig.6
Ec	Capacitance Stored Energy	10		uJ	VR =400V,	Fig.7

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

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	0.58	°C/W	Fig.8



Typical Feature Curve

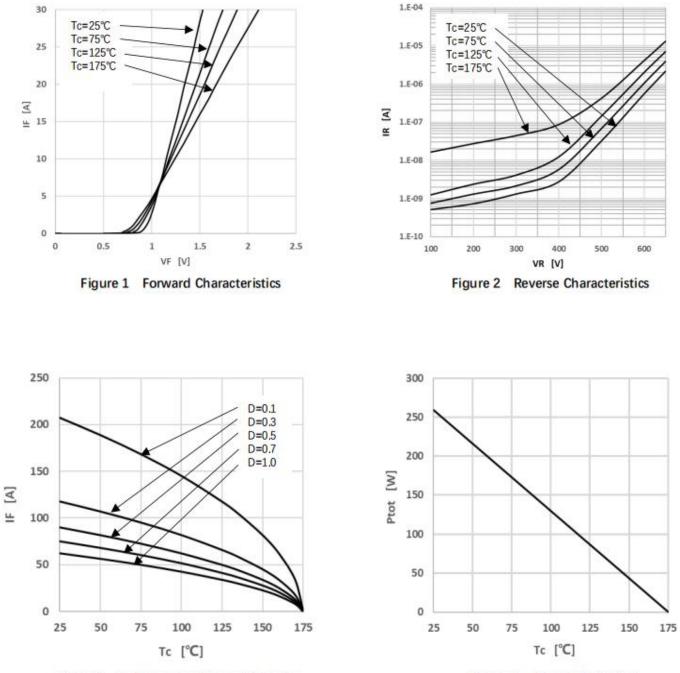


Figure 3 Peak Forward Current Derating

Figure 4 Power Dissipation



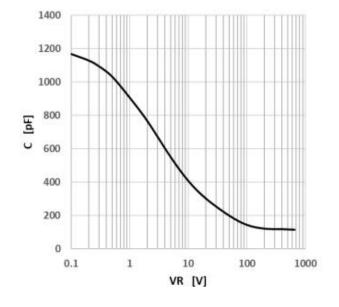


Figure 5 Capacitance vs. Reverse Voltage

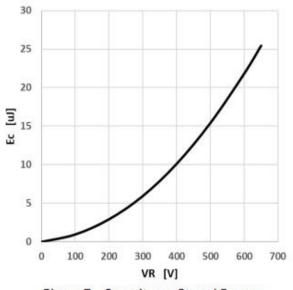


Figure 7 Capacitance Stored Energy

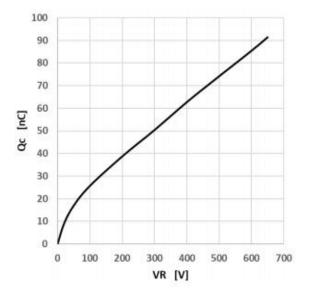


Figure 6 Capacitance Charge vs. Reverse Voltage

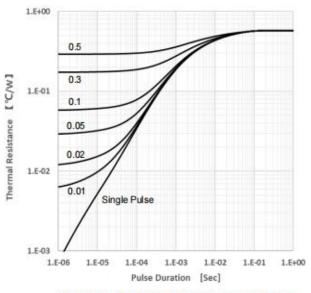
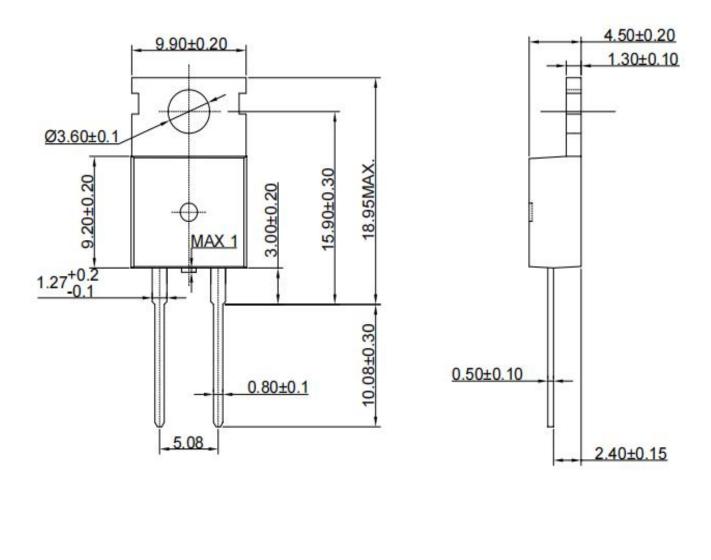
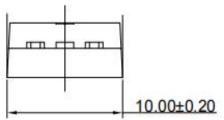


Figure 8 Transient Thermal Impedance



Package outline drawing(TO-220 Unit: mm)







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