

VRRM	IF (TC≤125℃)	QC	
650V	8A	15.4nC	

Applications:

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

Features:

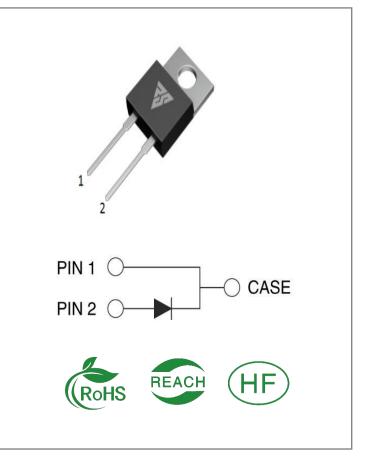
- Zero Reverse Recovery Current
- Zero Forward Recovery Voltage
- Positive Temperature Coefficient on VF
- Temperature-independent Switching
- 175°C Operating Junction Temperature

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.	
RSS04065B	TO-220-2 内绝缘	RSS04065B	Tube	50 PCS	





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

Symbol	Parameter	Value	Unit	Test Conditions	Note
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℃	
		17		TC ≤ 25℃	
IF	Forward Current	8	А	TC ≤ 125℃	Fig.3
		4		TC ≤ 150°C	
				TC = 25° C, tp = 10ms, Half	
	Non-Repetitive Forward Surge	35	^	Sine Wave	
IFSM	Current	29	A	TC = 110°C, tp = 10ms, Half	
				Sine Wave	
	Repetitive Peak Forward Surge	05	•	TC = 25°C, tp = 10ms, Half	
IFRM	Current	25	A	Sine Wave	
Ptot	Power Dissipation	48	W	TC = 25℃	Fig.4
тс	Maximum Case Temperature	150	°C		
TITCTO	Operating Junction and Storage	-55	°C		
TJ,TSTG	Temperature	to175	U		

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

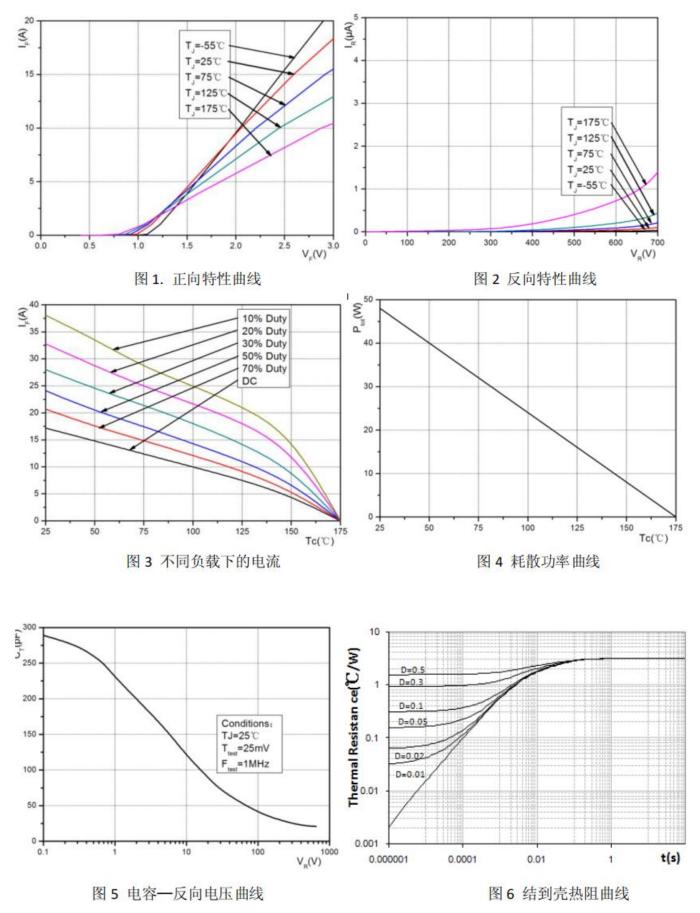
Symbol	Parameter	Тур.	Max.	Unit	Test Conditions	Note	
VF			1.6	V	IF = 4A, TJ = 25℃	Fig 1	
VF Forward	Forward Voltage	1.63	1.8	v	IF = 4A, TJ = 175℃	Fig.1	
п	Reverse Current	0.1	25		VR = 650V, TJ = 25°C		
IR Reverse Curr	Reverse Current	0.8	100 ^{µA}		VR = 650V, TJ = 175℃	Fig.2	
		289			VR = 1V, TJ = 25°C, f = 1MHz		
С	Total Capacitance	30	/	pF	VR = 200V, TJ = 25°C, f = 1MHz	Fig.5	
		22			VR = 400V, TJ = 25°C, f = 1MHz		
00	Total Capacitive	1 5 1	,		1/D = 4001/		
QC	Charge	15.4	/	nC	VR =400V,		

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

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	3.11	°C/W	Fig.6



Typical Feature Curve

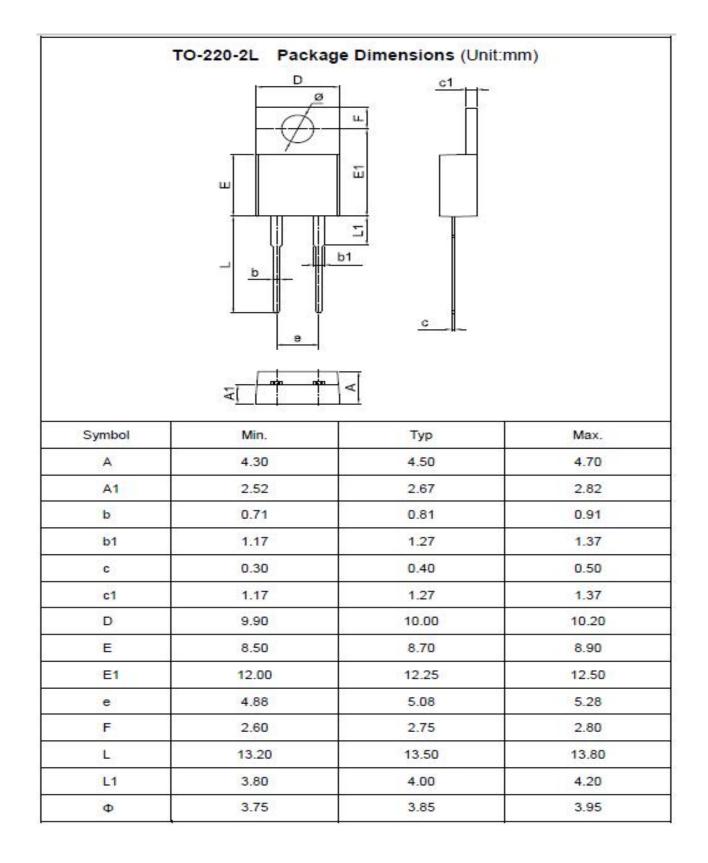


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Package outline drawing(TO-220 Unit: mm)





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