

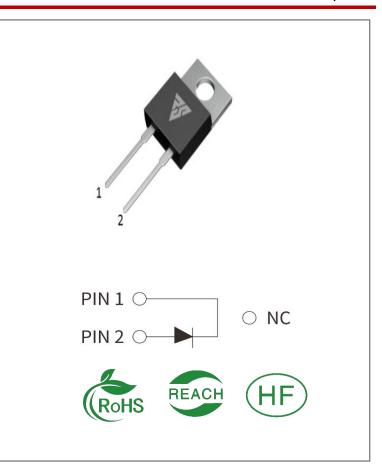
VRRM	IF (TC≤125℃)	QC
650V	15A	39nC

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.
RSS10065B	TO-220-2 内绝缘	RSS10065B	Tube	50 PCS



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

Symbol	Parameter	Value	Unit	Test Conditions	Note	
VRRM	Repetitive Peak Reverse Voltage	650	٧	TC = 25°C		
VRSM	Surge Peak Reverse Voltage	650	٧	TC = 25℃		
VR	DC Blocking Voltage	650	V	V TC = 25℃		
		33		TC ≤ 25°C	Fig.3	
IF	Forward Current	15	Α	TC ≤ 125°C		
		10		TC ≤ 150°C		
				TC = 25° C, tp = 10ms, Half		
IFSM	Non-Repetitive Forward Surge	90 65	Α	Sine Wave		
ILOM	Current			TC = 110° C, tp = 10 ms, Half		
				Sine Wave		
IFRM	Repetitive Peak Forward Surge	55	A	TC = 25° C, tp = 10 ms, Half		
IFKIVI	Current	33	A	Sine Wave		
Ptot	Power Dissipation	98	W	TC = 25℃	Fig.4	
TC	Maximum Case Temperature	150	$^{\circ}$			
TITCTC	Operating Junction and Storage	-55	$^{\circ}$			
TJ,TSTG	Temperature	to175				

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

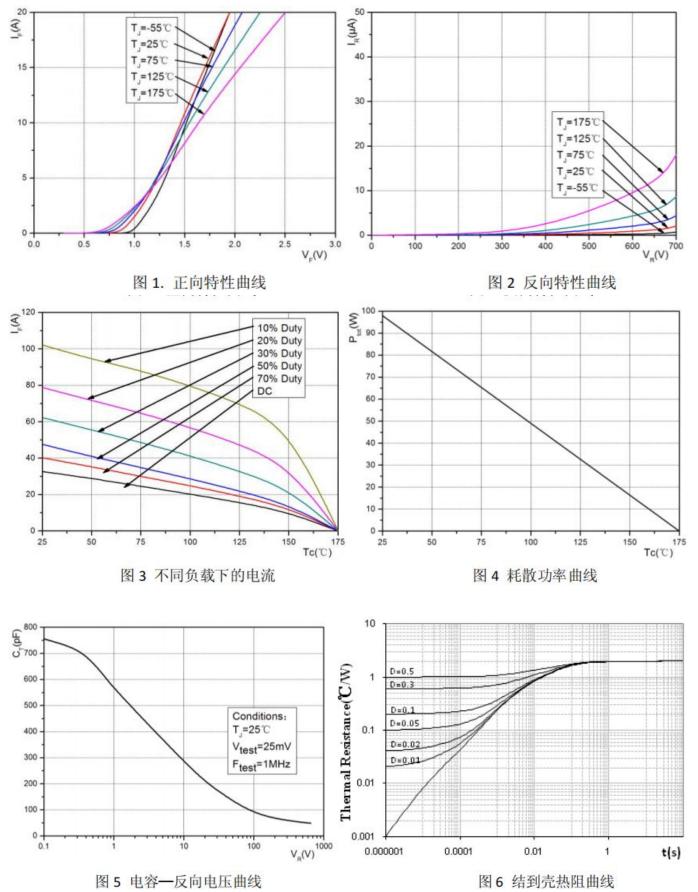
Symbol	Parameter	Тур.	Max.	Unit	Test Conditions	Note	
\/⊏	Command Valtage	1.45	5 1.6 J IF = 8A, TJ = 25°C	Fi∼ 1			
VF	Forward Voltage	1.61	1.8	V	IF = 8A, TJ = 175℃	Fig.1 Fig.2 Fig.5	
ID	Doverno Cummont	1 60		VR = 650V, TJ = 25℃	Fig 2		
IR	Reverse Current	12	220	μΑ	VR = 650V, TJ = 175℃	rig.2	
		762			VR = 1V, TJ = 25°C, f = 1MHz		
С	Total Capacitance	75	/	рF	VR = 200V, TJ = 25℃, f = 1MHz	Fig.5	
		54			VR = 400V, TJ = 25℃, f = 1MHz		
QC	Total Capacitive	39	,	nC	VR =400V,		
QC	Charge	37	/	IIC	VR -400V,		

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

Symbol	Symbol Parameter		Unit	Note
RθJC	Thermal Resistance from Junction to Case	2.03	°C/W	Fig.6

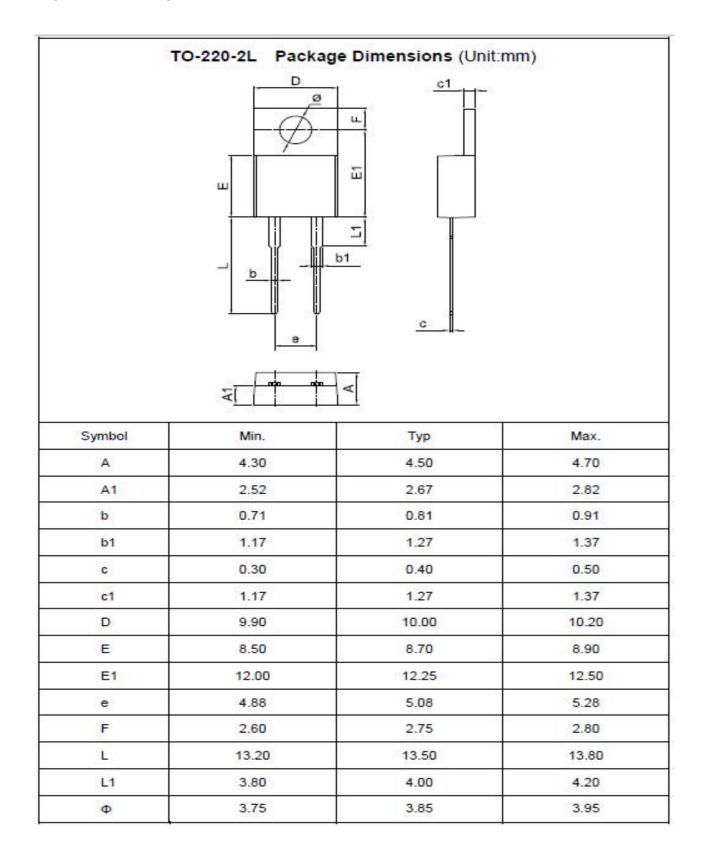


Typical Feature Curve





Package outline drawing(TO-220 Unit: mm)





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