

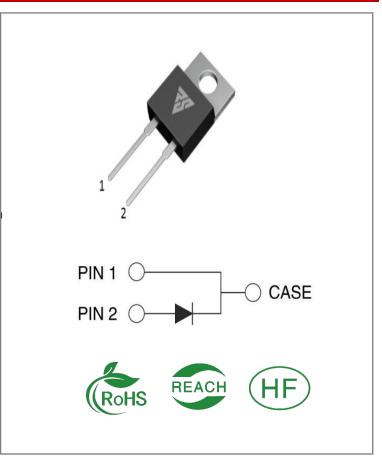
VRRM	IF (TC≤125℃)	QC
650V	12A	23nC

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.	
RSS06065B	TO-220-2 内绝缘	RSS06065B	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℃	
		21		TC ≤ 25°C	
IF	Forward Current	12 6	Α	TC ≤ 125°C	Fig.3
				TC ≤ 150°C	
				TC = 25°C, tp = 10ms,	
IFSM	Non-Repetitive Forward Surge	50 42	A	Half Sine Wave	
ILOM	Current			TC = 110° C, tp = 10 ms,	
				Half Sine Wave	
IFRM	Repetitive Peak Forward Surge	35 A		TC = 25°C, tp = 10ms,	
IFKIVI	Current	33	A	Half Sine Wave	
Ptot	Power Dissipation	70	W	TC = 25℃	Fig.4
TC	Maximum Case Temperature	150	$^{\circ}\!\mathbb{C}$		
TITCTC	Operating Junction and Storage	-55	$^{\circ}$ C		
TJ,TSTG	Temperature	to175			

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

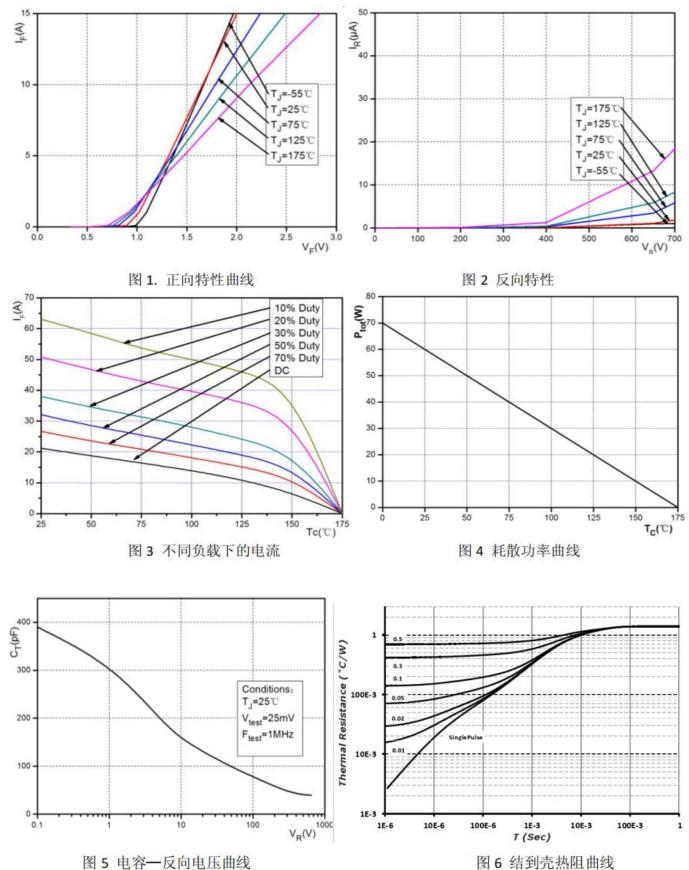
Symbol	Parameter	Тур.	Max.	Unit	Test Conditions	Note
VF I	Forward Voltage	1.42	1.6	V	IF = 6A, TJ = 25℃	Fi∼ 1
		1.59	1.8	V	IF = 6A, TJ = 175℃	Fig.1
IR F	Reverse Current	2	30		VR = 650V, TJ = 25℃	Fi _~ 2
		15	120	μΑ	VR = 650V, TJ = 175℃	Fig.2
		423			VR = 1V, TJ = 25°C, f = 1MHz	
С	Total Capacitance	44	/	pF	VR = 200V, TJ = 25°C, f = 1MHz	Fig.5
		37			VR = 400V, TJ = 25°C, f = 1MHz	
QC	Total Capacitive	23	,	nC VR =400V,	VP -400V	
	Charge		/		VK -400V,	

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

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	2.3	°C/W	Fig.6



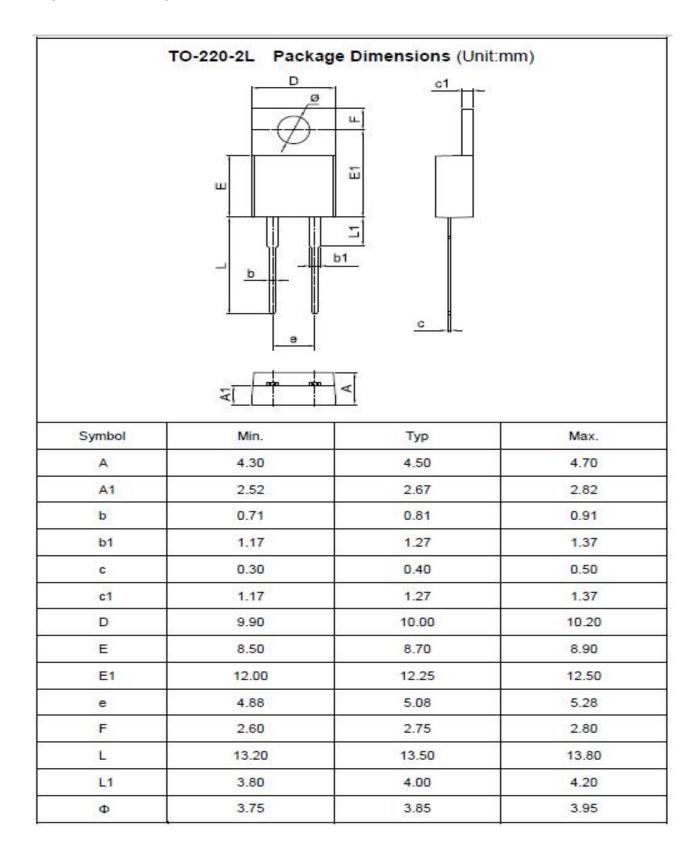
Typical Feature Curve



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Package outline drawing(TO-220 Unit: mm)





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- c.whose failuer to when properly used in accordance with instructions for used provided in the laeling,can be reasonably expected to result in significant injury to the user.

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