

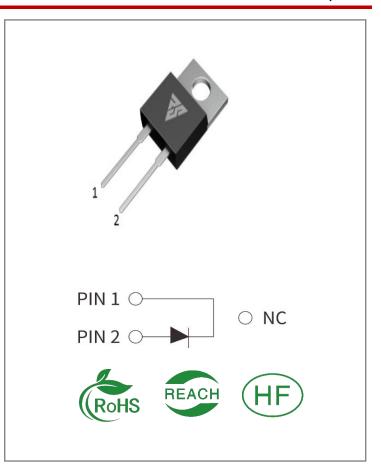
VRRM	IF (TC≤125℃)	QC
650V	14A	11nC

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.		
RSS08065B	TO-220-2 内绝缘	RSS08065B	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	V	TC = 25℃		
VR	DC Blocking Voltage	650	٧	TC = 25℃		
		30	А	TC ≤ 25°C		
IF	Forward Current	14		TC ≤ 125°C	Fig.3	
		8		TC ≤ 150°C		
				TC = 25° C, tp = 10ms, Half		
IFSM	Non-Repetitive Forward Surge	72 55	А	Sine Wave		
ILOM	Current			TC = 110° C, tp = 10 ms, Half		
				Sine Wave		
IFRM	Repetitive Peak Forward Surge	45	5 A	TC = 25° C, tp = 10ms, Half		
IFKIVI	Current	45		Sine Wave		
Ptot	Power Dissipation	90	W	TC = 25°C	Fig.4	
TC	Maximum Case Temperature	150	$^{\circ}$			
TITCTC	Operating Junction and Storage	-55	$^{\circ}$ C			
TJ,TSTG	Temperature	to175				

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

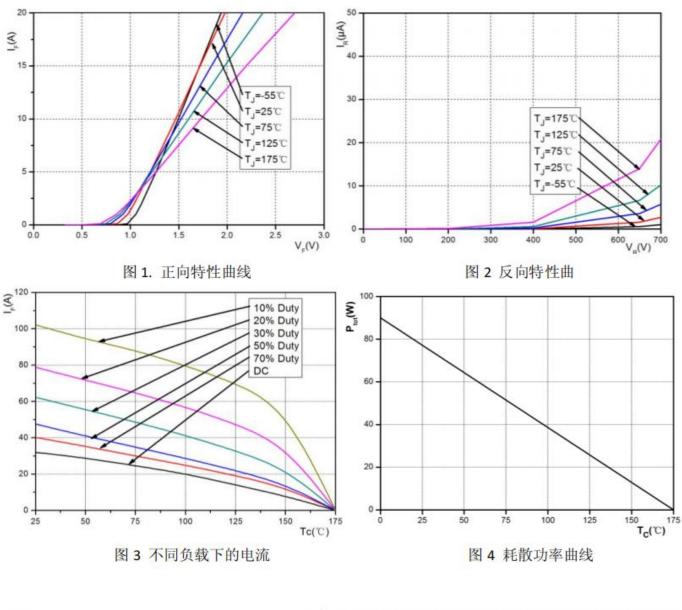
Symbol	Parameter	Тур.	Max.	Unit	Test Conditions	Note	
\/⊏	Camusard Valtage	1.4	1.8	V	IF = 8A, TJ = 25℃	F:- 1	
VF	Forward Voltage	1.54	2.4	V	IF = 8A, TJ = 175℃	Fig.1	
ID	Doverno Cummont	1	20	^	VR = 650V, TJ = 25℃	Fia 2	
IR	Reverse Current	15	200	μΑ	VR = 650V, TJ = 175℃	Fig.2	
		580			VR = 1V, TJ = 25°C, f = 1MHz		
С	Total Capacitance	58	/	рF	VR = 200V, TJ = 25℃, f = 1MHz	Fig.5	
		42			VR = 400V, TJ = 25℃, f = 1MHz		
QC	Total Capacitive	11	,	nC	VR =400V.		
QC	Charge	11	′	IIC	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



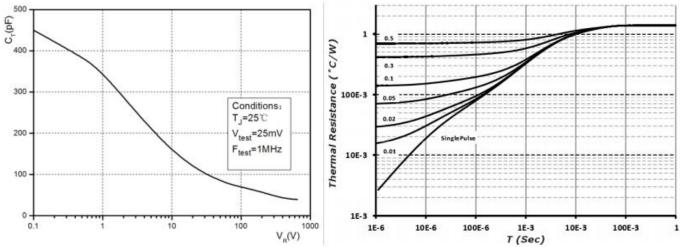
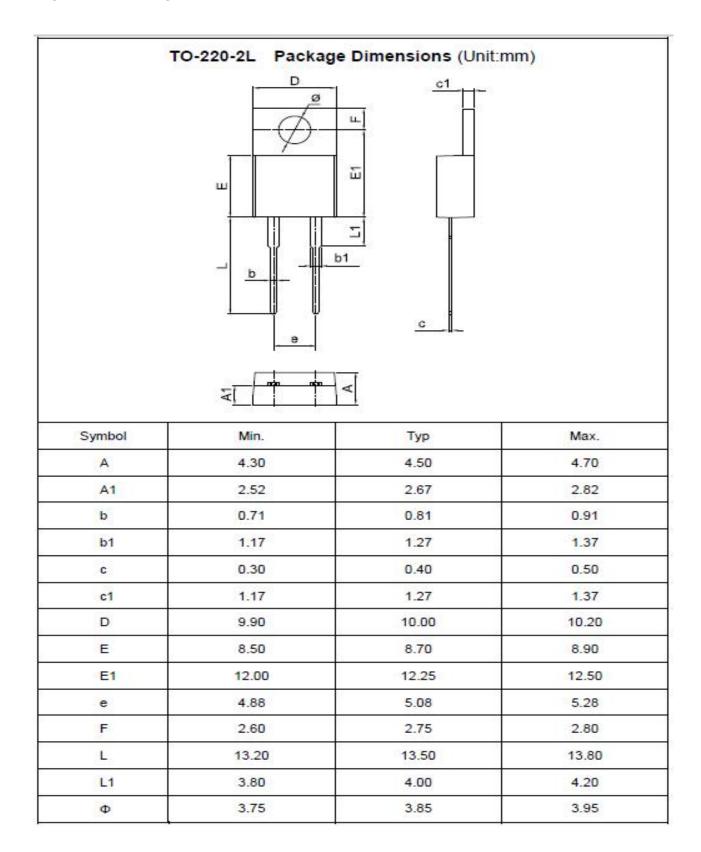


图 5 电容一反向电压曲线

图 6 结到壳热阻曲线



Package outline drawing(TO-220 Unit: mm)





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