

VRRM	IF (TC≤125℃)	QC
650V	14A	11nC

**Applications:**

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

**Features:**

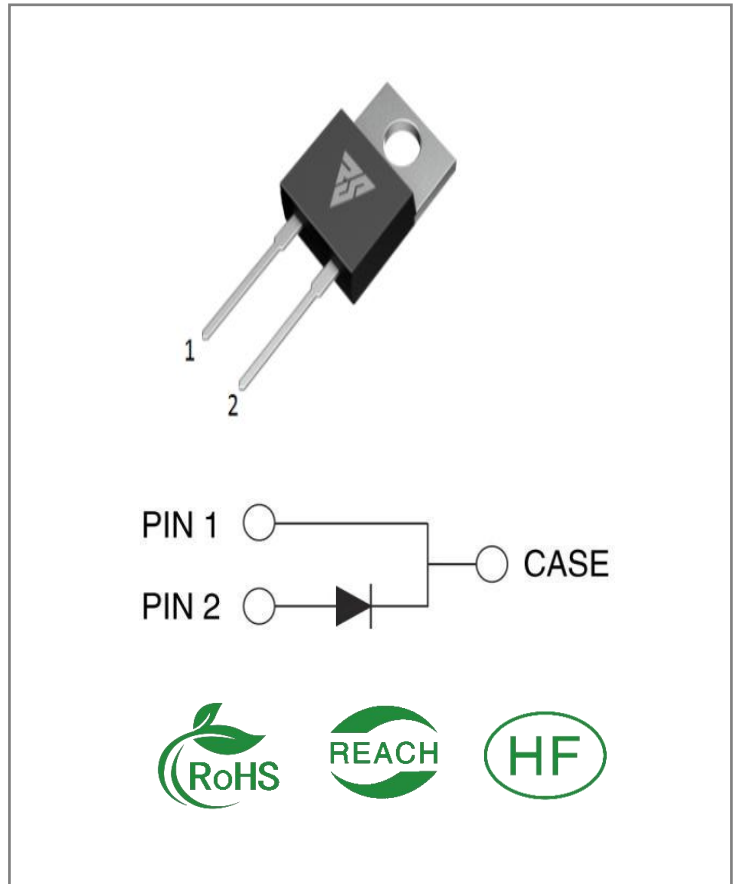
- Zero Reverse Recovery Current
- Zero Forward Recovery Voltage
- Positive Temperature Coefficient on VF
- Temperature-independent Switching
- 175°C Operating Junction Temperature

**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** (T<sub>J</sub>= 25°C unless otherwise specified)

Symbol	Parameter	Value	Unit	Test Conditions	Note
VRRM	Repetitive Peak Reverse Voltage	650	V	TC = 25°C	
VRSM	Surge Peak Reverse Voltage	650	V	TC = 25°C	
VR	DC Blocking Voltage	650	V	TC = 25°C	
IF	Forward Current	30 14 8	A	TC ≤ 25°C TC ≤ 125°C TC ≤ 150°C	Fig.3
IFSM	Non-Repetitive Forward Surge Current	72 55	A	TC = 25°C, tp = 10ms, Half Sine Wave TC = 110°C, tp = 10ms, Half Sine Wave	
IFRM	Repetitive Peak Forward Surge Current	45	A	TC = 25°C, tp = 10ms, Half Sine Wave	
Ptot	Power Dissipation	90	W	TC = 25°C	Fig.4
TC	Maximum Case Temperature	150	°C		
TJ,TSTG	Operating Junction and Storage Temperature	-55 to175	°C		

**Electrical Characteristics** (T<sub>J</sub>= 25°C unless otherwise specified)

Symbol	Parameter	Typ.	Max.	Unit	Test Conditions	Note
VF	Forward Voltage	1.4 1.54	1.8 2.4	V	IF = 8A, T <sub>J</sub> = 25°C IF = 8A, T <sub>J</sub> = 175°C	Fig.1
IR	Reverse Current	1 15	20 200	μA	VR = 650V, T <sub>J</sub> = 25°C VR = 650V, T <sub>J</sub> = 175°C	Fig.2
C	Total Capacitance	580 58 42	/	pF	VR = 1V, T <sub>J</sub> = 25°C, f = 1MHz VR = 200V, T <sub>J</sub> = 25°C, f = 1MHz VR = 400V, T <sub>J</sub> = 25°C, f = 1MHz	Fig.5
QC	Total Capacitive Charge	11	/	nC	VR = 400V,	

**Thermal Characteristics** (T<sub>J</sub>= 25°C unless otherwise specified)

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

Typical Feature Curve

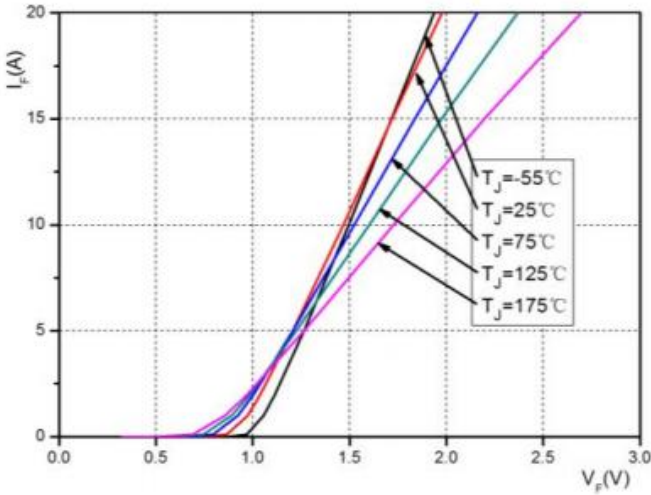


图 1. 正向特性曲线

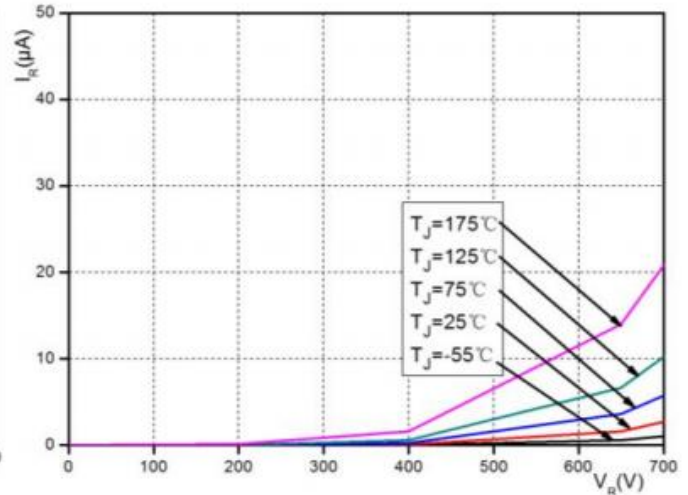


图 2 反向特性曲

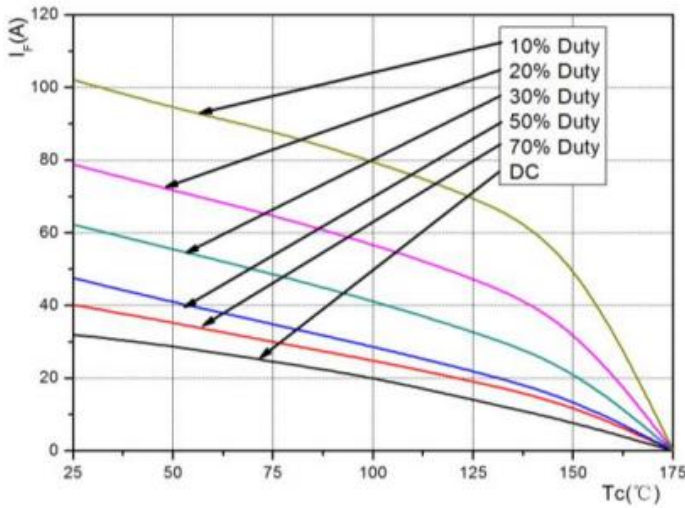


图 3 不同负载下的电流

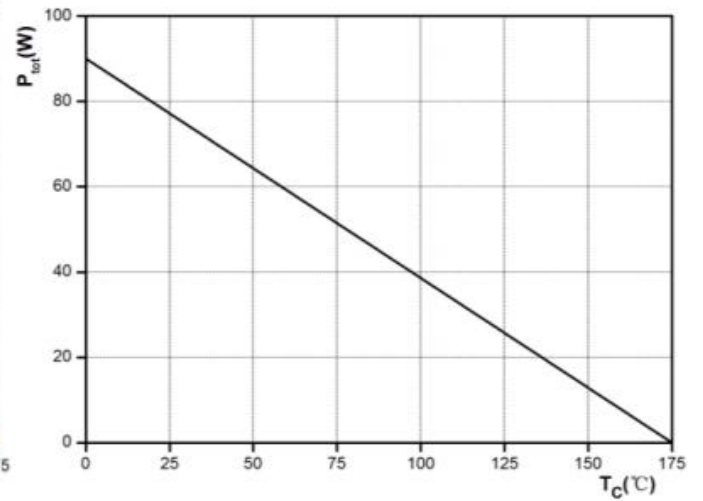


图 4 耗散功率曲线

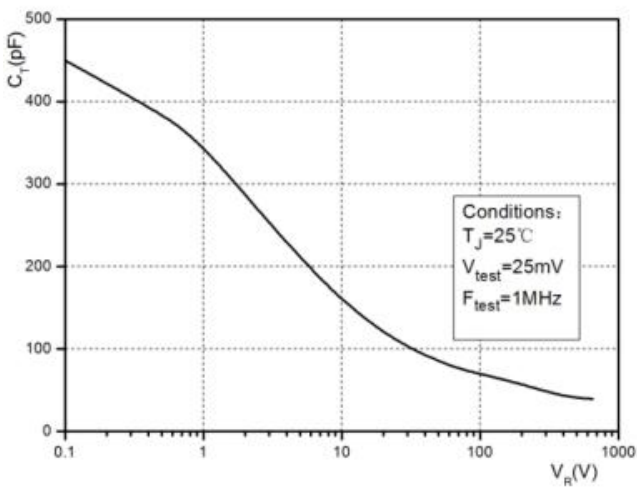


图 5 电容—反向电压曲线

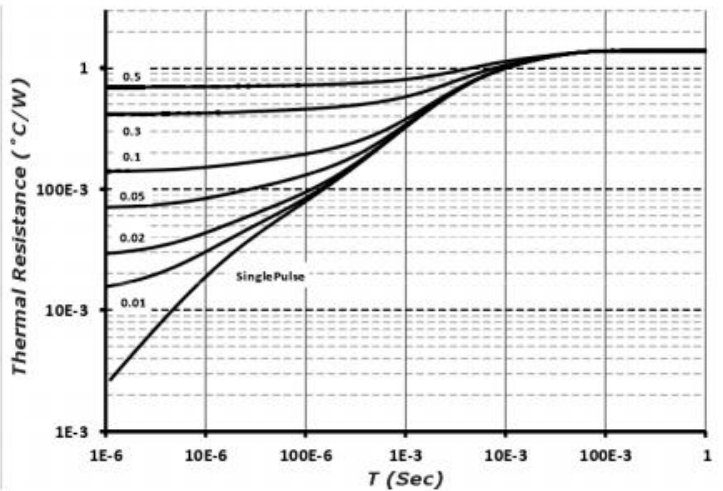
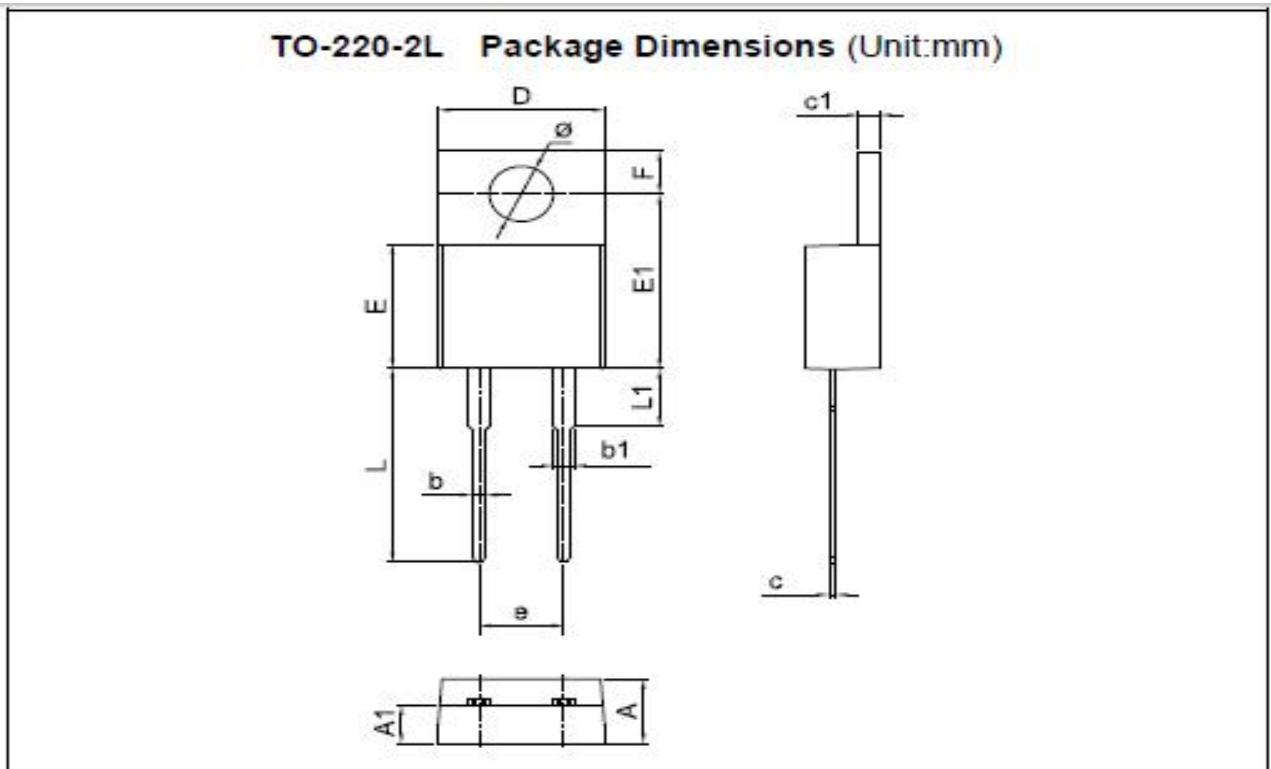


图 6 结到壳热阻曲线

Package outline drawing(TO-220 Unit: mm)



Symbol	Min.	Typ	Max.
A	4.30	4.50	4.70
A1	2.52	2.67	2.82
b	0.71	0.81	0.91
b1	1.17	1.27	1.37
c	0.30	0.40	0.50
c1	1.17	1.27	1.37
D	9.90	10.00	10.20
E	8.50	8.70	8.90
E1	12.00	12.25	12.50
e	4.88	5.08	5.28
F	2.60	2.75	2.80
L	13.20	13.50	13.80
L1	3.80	4.00	4.20
Φ	3.75	3.85	3.95

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