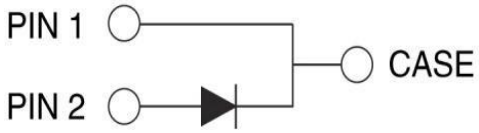
VRRM	IF (TC≤135℃)	QC
1700V	26A	82nC



RoHS REACH HF

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.
RSS25170W	TO-247-2	RSS25170W	Tube	30 PCS

Maximum Ratings (TJ= 25℃ unless otherwise specified)

Symbol	Parameter	Value	Unit	Test Conditions	Note
VRRM	Repetitive Peak Reverse Voltage	1700	V	TC = 25℃	
VRSM	Surge Peak Reverse Voltage	1700	V	TC = 25℃	
VR	DC Blocking Voltage	1700	V	TC = 25℃	
IF	Forward Current	26	A	TC ≤ 135℃	
IFRM	Repetitive Peak Forward Surge Current	120	A	TC = 25℃, tp =8.3ms, Half Sine Wave	
Ptot	Power Dissipation	375	W	TC = 25℃	Fig.3
TC	Maximum Case Temperature	135	℃		
TJ,TSTG	Operating Junction and Storage Temperature	-55 to175	℃		

Electrical Characteristics (TJ= 25℃ unless otherwise specified)

Symbol	Parameter	Typ.	Max.	Unit	Test Conditions	Note
VF	Forward Voltage	1.6 2.6	1.8 4.0	V	IF = 25A, TJ = 25℃ IF = 25A, TJ = 175℃	Fig.1
IR	Reverse Current	2 20	50 400	μA	VR = 1700V, TJ = 25℃ VR = 1700V, TJ = 175℃	Fig.2
C	Total Capacitance	1700 95	/	pF	VR = 1V, TJ = 25℃, f = 1MHz VR = 800V, TJ = 25℃, f = 1MHz	Fig.5
QC	Total Capacitive Charge	82	/	nC	VR =1200V,	Fig.4

Thermal Characteristics (TJ= 25℃ unless otherwise specified)

Symbol	Parameter	Typ.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	0.4	℃/W	Fig.6

Typical Feature Curve

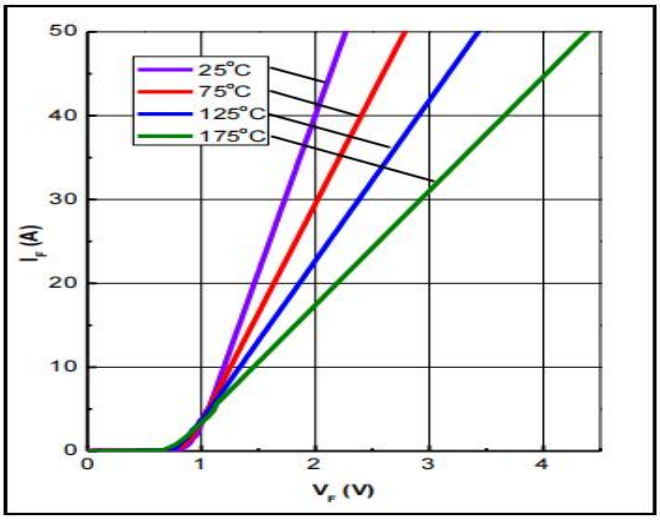


Figure 1. Forward Characteristics

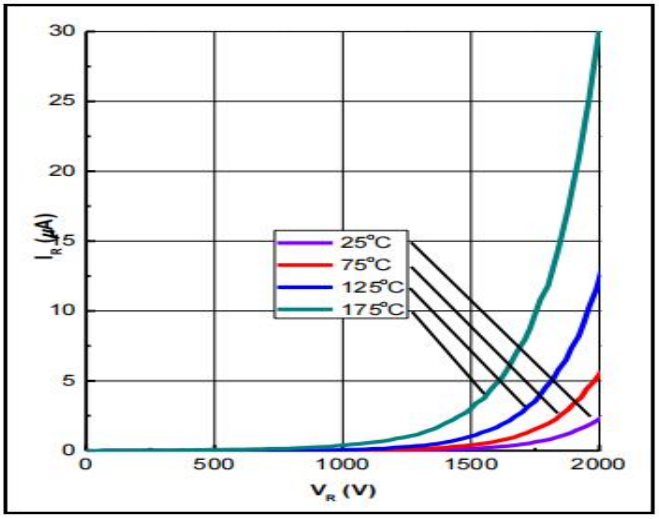


Figure 2. Reverse Characteristics

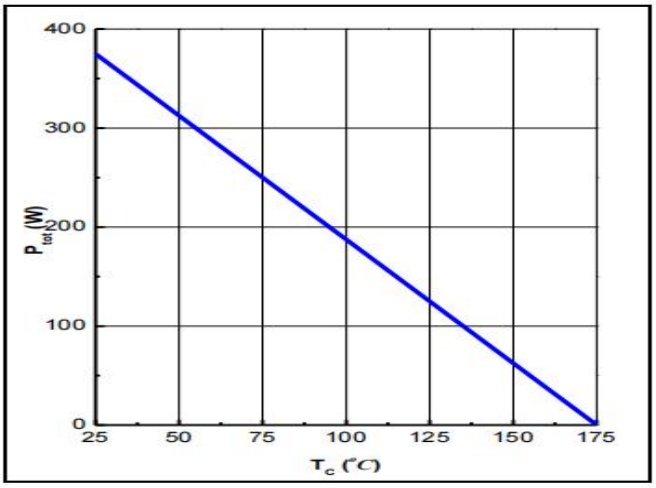


Figure 3. Power Derating

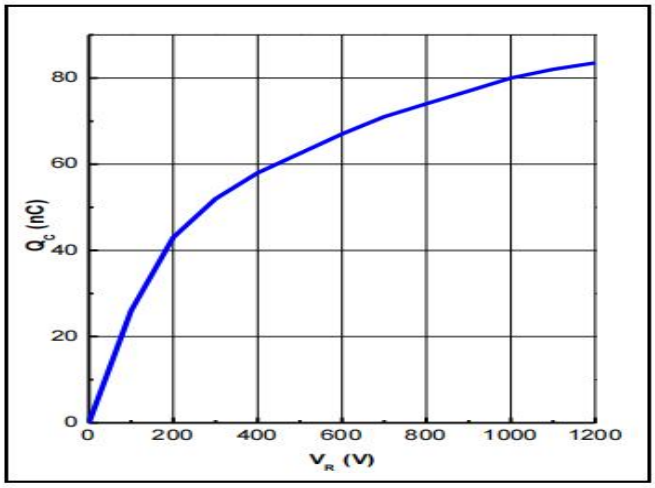


Figure 4. Total Capacitive Charge vs. Reverse Voltage

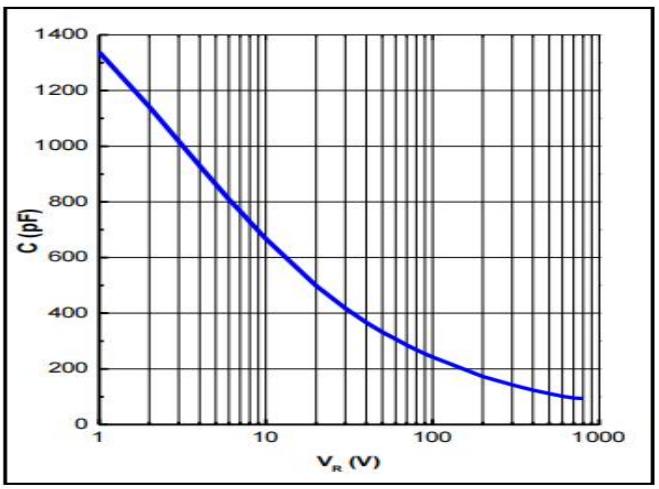


Figure 5. Total Capacitance vs. Reverse Voltage

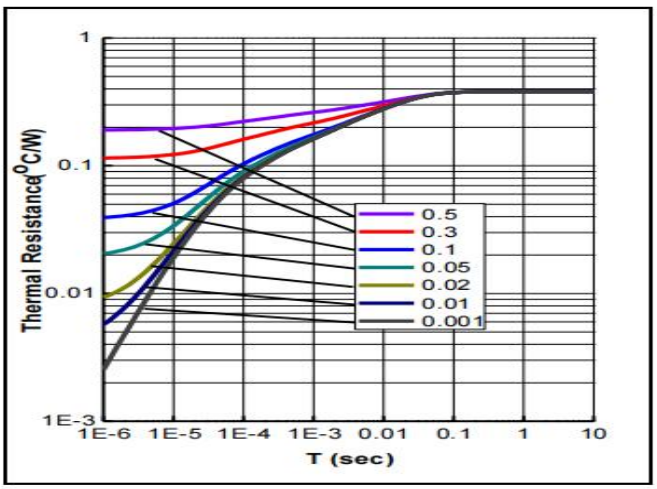
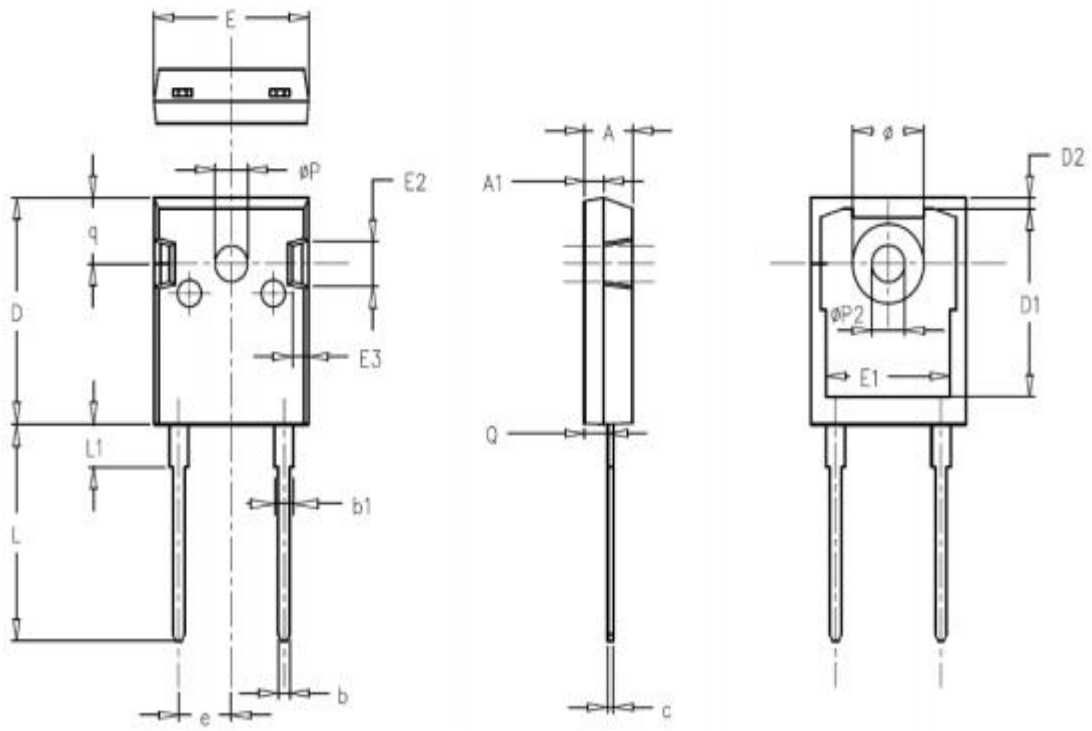


Figure 6. Transient Thermal Impedance

Package outline drawing(TO-247-2 Unit: mm)



SYMBOL	MILLIMETERS			N OTES	SYMBOL	MILLIMETERS			N OTES
	N ormal	MIN.	MAX.			Normal	MIN.	MAX.	
A	4.98	4.68	5.36		øP	3.66	3.45	3.85	
A 1	1.99	1.90	2.10		e	5.44	BSC		
Q	2.41	2.30	2.60		q	6.24	5.99	6.58	
c	0.60	0.48	0.72		øP2	3.45	3.24	3.64	
b	1.20	1.00	1.40		ø	7.14	7.10	7.30	
b1	2.07	1.90	2.30		D1	16.56	16.10	17.10	
D	21.10	20.80	21.80		D2	0.98	0.80	1.36	
E	15.98	15.38	16.20		E1	13.30	13.00	13.52	
L	20.28	19.50	20.50		E2	5.64	5.10	6.10	
L1	4.01	3.75	4.35		E3	2.33	1.90	2.70	

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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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