

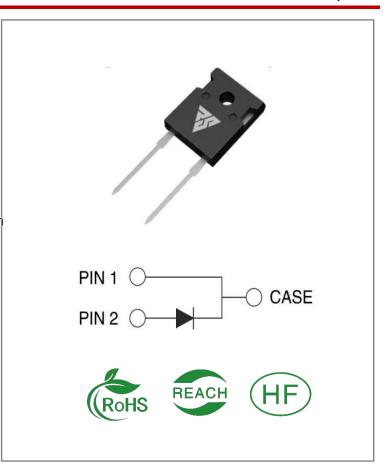
VRRM	IF (TC≤135℃)	QC
650V	35A	66nC

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.
RSS30065W	TO-247-2	RSS30065W	Tube	30 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℃	
VRSM	Surge Peak Reverse Voltage	650	٧	TC = 25℃	
VR	DC Blocking Voltage	650	V	TC = 25℃	
IF	Forward Current	35	А	TC ≤ 135°C	
		30	30 TC ≤ 143 °C		
IFRM	Repetitive Peak Forward Surge	210	A	TC = 25° C, tp =8.3ms, Half Sine	
II IXI	Current	210	'`	Wave	
Ptot	Power Dissipation	234	W	TC = 25℃	Fig.3
TC	Maximum Case Temperature	143	${\mathbb C}$		
TJ,TST	Operating Junction and Storage	-55	$^{\circ}$		
G	Temperature	to175			

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

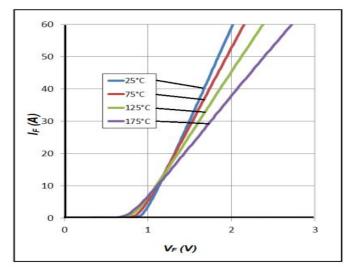
Symbol	Parameter	Тур.	Max.	Unit	Test Conditions	Note	
VF	Forward Voltage	1.5	1.8	V	IF = 30A, TJ = 25℃	Eig 1	
VF	Forward Voltage	1.78	2.3	V	IF = 30A, TJ = 175℃	Fig.1	
IR	Reverse Current	2	20	۸	VR = 650V, TJ = 25°C	Fig.2	
Reverse Current	15	200	μΑ	VR = 650V, TJ = 175℃	rig.2		
		1805			VR = 1V, TJ = 25°C, f = 1MHz		
С	Total Capacitance	176	/	рF	VR = 200V, TJ = 25°C, f = 1MHz	Fig.5	
		145			VR = 400V, TJ = 25°C, f = 1MHz		
00	Total Capacitive	66	,	»C	\/D =450\/	Eia 1	
QC	Charge	00	/	nC	VR =650V,	Fig.4	

Thermal Characteristics (TJ= 25℃ unless otherwise specified)

Symbol	Parameter	Тур.	Unit	Note
RθJC	Thermal Resistance from Junction to Case	0.64	°C/W	Fig.6



Typical Feature Curve





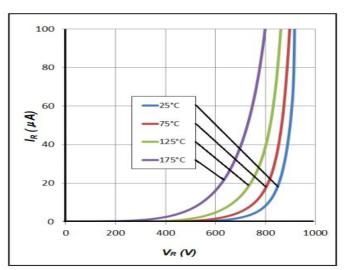


Figure 2. Reverse Characteristics

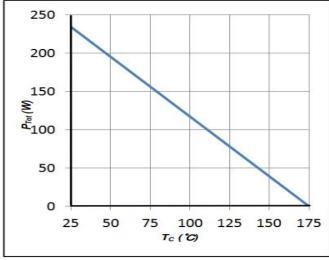


Figure 3. Power Derating

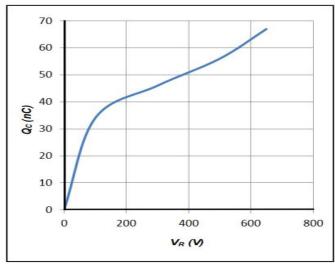


Figure 4. Total Capacitive Charge vs. Reverse Voltage

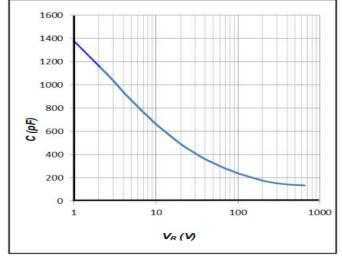


Figure 5. Total Capacitance vs. Reverse Voltage

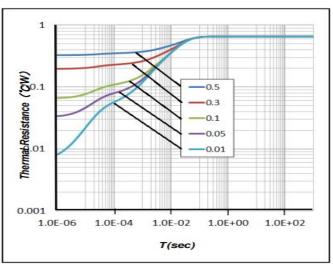
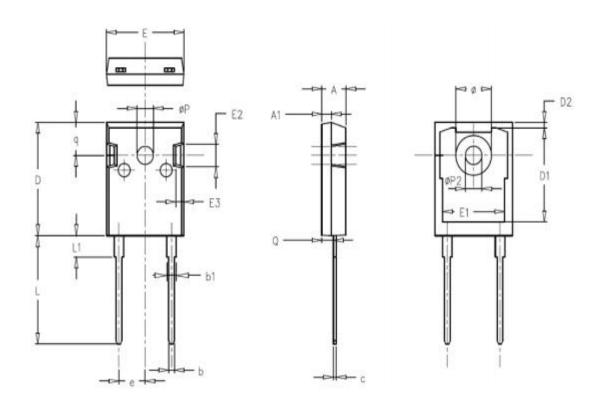


Figure 6. Transient Thermal Impedance

www.reasunos.com 3 / 5 Copyright Reasunos



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



SYMBOL	MILLIMETERS		NOTES	CWIDOL	MILLIMETERS			н отте	
	N ormal	MIN.	MAX.	N OTES	SYMBOL	Normal	MIN.	MAX.	N OTES
A	4.98	4.68	5.36		øΡ	3.66	3.45	3.85	
A 1	1.99	1.90	2.10		е	5.44	BSC	:	
Q	2.41	2.30	2.60	Ĭ,	q	6.24	5.99	6.58	
С	0.60	0.48	0.72		øP2	3.45	3.24	3.64	
Ь	1.20	1.00	1.40		ø	7.14	7.10	7.30	
b 1	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	
Ε	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	



Disclaimers:

Reasunos Semiconductor Technology Co.Ltd (Reasunos) reserves the right to make changes without notice in order to improve reliability, function or design and to discontinue any product or service without notice. Customers should obtain the latest relevant information before orders and should verify that such information in current and complete. All products are sold subject to Reasunos's terms and conditions supplied at the time of orderacknowledgement.

Reasunos Semiconductor Technology Co.Ltd warrants performance of its hardware products to the speciffications at the time of sale. Testing, reliability and quality control are used to the extene Reasunos deems necessary to support this warrantee. Except where agreed upon by contr- actual agreement, testing of all parameters of each product is not necessarily performed.

Reasunos Semiconductor Technology Co.Ltd does not assume any liability arising from the use of any product or circuit designs described herein. Customers are responsible for their products and applications using Reasunos's components. To minimize risk, customers must provide adequate design and operating safeguards.

Reasunos Semiconductor Technology Co.Ltd does not warrant or convey any license eith- er expressed or implied under its patent rights, nor the rights of others. Reproduction of inform- ation in Reasunos's data sheets or data books is permissible only if reproduction is without modification oralteration. Reproduction of this information with any alteration is an unfair and deceptive business practice. Reasunos Semiconductor Technology Co.Ltd is not responsi- ble or liable for such altered documentation.

Resale of Reasunos's products with statements different from or beyond the parameters stated by Reasunos Semiconductor Technology Co.Ltd for that product or service voids all exp- ress or implied warrantees for the associated Reasunos's product or service and is unfair and deceptive business practice. Reasunos Semiconductor Technology Co.Ltd is not responsi- ble or liable for such statements.

Life Support Policy:

Reasunos Semiconductor Technology Co.Ltd's Products are not authorized for use as cri- tical components in life support devices or systems without the expressed written approval of Reasunos Semiconductor Technology Co.Ltd.

As used herein:

- 1. Life support devices or systems are devices or systems which: a.are intended for surgical implant into the human body, b.support or sustain life,
- 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.

2.A critical component is any component of a life support device or system whose failure to system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

www.reasunos.com 5 / 5 Copyright Reasunos

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by REASUNOS manufacturer:

Other Similar products are found below:

MA4E2039 MMBD301M3T5G RB160M-50TR D83C BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327

NRVBAF360T3G NSR05F40QNXT5G NTE555 JANS1N6640 SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MBRA140TRPBF

MBRB30H30CT-1G BAT 15-04R E6152 JANTX1N5712-1 DMJ3940-000 SB007-03C-TB-E NRVBB20100CTT4G NRVBM120LT1G

NTSB30U100CT-1G CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF

ACDBA260LR-HF ACDBA1100-HF 10BQ015-M3/5BT NRVBM120ET1G VSSB410S-M3/5BT 1N5819T-G PDS1040Q-13 B160BQ-13-F

SDM05U20CSP-7 BAS 70-07 E6433 B140S1F-7 HSM560Je3/TR13 DDB2265-000 ZHCS506QTA HSM190Je3/TR13 B330AF-13

ACDBUC0230-HF SDM1U100S1F-7 MBR10200CTF-G1 CDLL5712 DMF2822-000