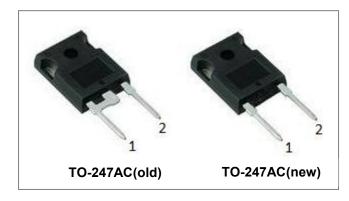






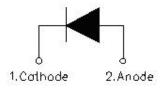
SDUR1560W ULTRAFAST RECTIFIER



Applications:

- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders

Circuit Diagram



Features:

- Ultra-Fast switching
- High current capability
- Low reverse leakage current
- · High surge current capability
- This is a Pb free device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Maximum Ratings:

Characteristics	Symbol	Condition Max.		Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	600	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	15	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	160	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 15A, Pulse, T _J = 25°C	1.53	1.7	V
	V _{F2}	@ 15A, Pulse, T _J = 125°C	1.44	1.5	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	0.4	10	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	0.3	1	mA
Reverse Recovery Time	t _{rr}	I _F =500mA, I _R =1A,and I _m =250mA	31	50	ns

^{*} Pulse width < 300 μs, duty cycle < 2%

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



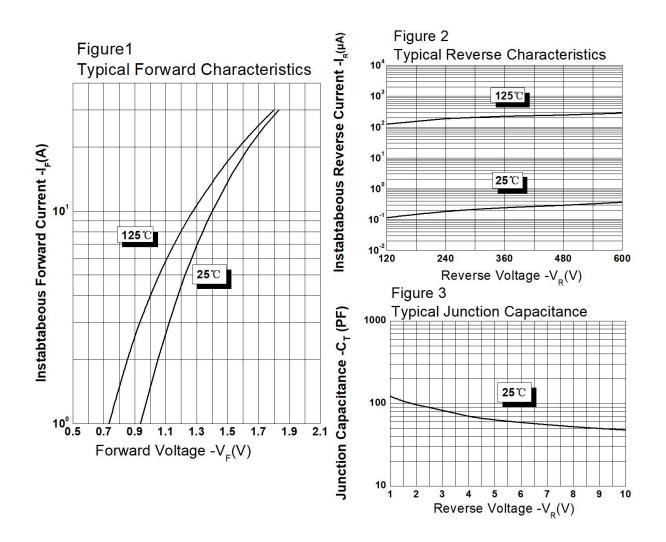




Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	4	°C/W
Approximate Weight	wt	-	6.28	g
Case Style	TO-247AC			

Ratings and Characteristics Curves



[•] China - Germany - Korea - Singapore - United States •

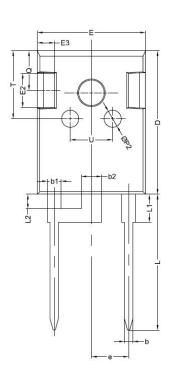
[•] http://www.smc-diodes.com - sales@ smc-diodes.com •

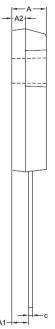


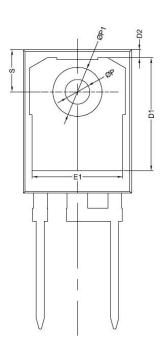




Mechanical Dimensions TO-247AC

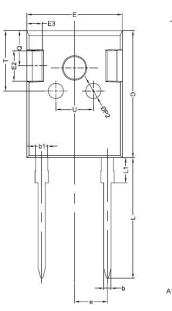


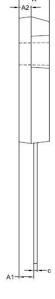


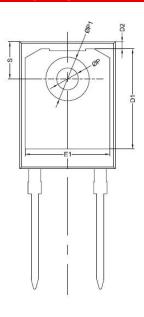


OVMDOL	Millimeters				
SYMBOL	MIN.	TYP.	MAX.		
Α	4.80	5.00	5.20		
A1	2.20	2.41	2.61		
A2	1.90	2.00	2.10		
b	1.00	1.20	1.40		
b1	1.80	2.00	2.20		
b2	2.80	3.00	3.20		
С	0.50	0.60	0.75		
D	20.30	21.00	21.20		
D1		16.55			
D2		1.20			
E	15.45	15.8	16.0		
E1		13.30			
E2		5.00			
E3		2.50			
е		5.44			
L	19.42	19.92	20.42		
L1		4.13			
L2		2.15			
Р	3.50	3.60	3.70		
P1	7.1	-	7.40		
P2		2.50			
Q		5.80			
Q S T	6.05	6.15	6.25		
Т		10.00			
U		6.20			

Mechanical Dimensions TO-247AC(new)







CVMDOL	Millimeters			
SYMBOL	MIN.	TYP.	MAX.	
Α	4.80	5.00	5.20	
A1	2.20	2.41	2.61	
A2	1.90	2.00	2.10	
b	1.10	1.20	1.35	
b1	1.80	2.00	2.20	
С	0.50	0.60	0.75	
D	20.30	21.00	21.20	
D1		16.58		
D2		1.17		
ш	15.60	15.80	16.00	
E1		14.02		
E2		5.00		
E3		2.50		
е		5.44		
Ш	19.42	19.92	20.42	
L1		4.13		
Р	3.50	3.60	3.70	
P1	7.1	7.19	7.40	
P2		2.50		
Q		5.80		
Q S T	6.05	6.15	6.25	
Т		10.00		
U		6.20		

Note: Date code is after 1750, please use this new TO-247AC mechanical dimensions.

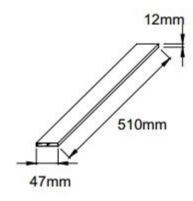
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







Tube Specification



Marking Diagram



Where XXXXX is YYWWL

SDUR = Device Type 15 = Forward Current (15A) 60 = Reverse Voltage (600V) W = Configuration SSG = SSG

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
SDUR1560W	TO-247AC(Pb-Free)	25pcs / tube	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall SMC Diode Solutions be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Diode Solution assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall SMC Diode Solutions be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Diode Solutions.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Diode Solutions.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by SMC Diode manufacturer:

Other Similar products are found below:

MMBD3004S-13-F RD0306T-H DSE010-TR-E BAV17-TR BAV19-TR HSC285TRF-E 1N3611 NTE156A NTE574 NTE6244 1SS181-TP 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 FC903-TR-E 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08 1N4454-TR BAV199E6433HTMA1 BAS28-7 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G RGP30D-E3/73 BAV99TQ-13-F BAS21DWA-7 NTE6250 NTE582-4