

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







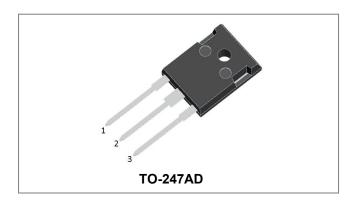


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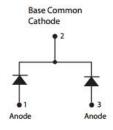
SDUR60P60WT ULTRAFAST RECTIFIER



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=70°C, rectangular wave form	30(Per Leg) 60(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	I _{FSM}	8.3ms, Half Sine pulse	200	А

Electrical Characteristics:

Characteristics	Symbol	Symbol Condition		Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 15A, Pulse, T _J = 25°C @ 30A, Pulse, T _J = 25°C	1.20 1.50	- 1.70	V
Reverse Current	I _{R1}	@V _R = rated V _R , T _J =25°C	0.03	150	uA
(Per Leg)*	I _{R2}	@V _R = rated V _R , T _J =125°C	8	1	mA
Reverse Recovery Time (Per Leg)	t _{rr}	I _F =500mA,I _R =1A,and I _m =250mA	40	50	ns

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

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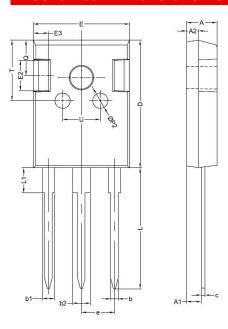


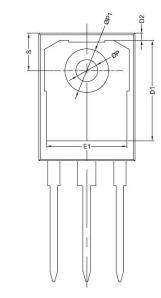


Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +175	°C
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	0.34	°C/W
Approximate Weight	wt	-	6.28	g
Case Style	TO-247AD			

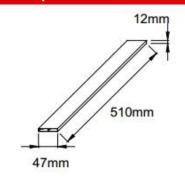
Mechanical Dimensions TO-247AD



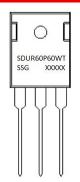


CVMPOL	Millimeters					
SYMBOL	MIN.	TYP.	MAX.			
Α	4.80	5.00	5.20			
A1	2.20	2.41	2.61			
A2	1.90	2.00	2.10			
b	1.10	1.20	1.40			
b1	1.80	2.00	2.20			
b2	2.80	3.00	3.20			
С	0.50	0.60	0.75			
D	20.30	21.00	21.20			
D1		16.55				
D2 E		1.20				
E	15.45	15.80	16.00			
E1		13.30				
E2		5.00				
E3		2.50				
е		5.44				
L	19.42	19.92	20.70			
L1		4.13				
Р	3.50	3.60	3.70			
P1	7.1		7.40			
P2		2.50				
Q		5.80				
S T	6.05	6.15	6.25			
T		10.00				
U		6.20				

Tube Specification



Marking Diagram



Where XXXXX is YYWWL

SDUR = Device Type 60 = Forward Currer

Forward Current (60A) = P

60 = Reverse Voltage (600V) WT = Configuration SSG = SSG

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

Cautions: Molding resin

Epoxy resin UL:94V-0

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SDUR60P60WT



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Ordering Information:

Device	Package	Shipping	
SDUR60P60WT	TO-247AD(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.

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