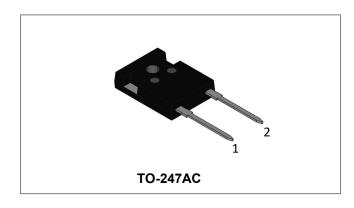


Technical Data
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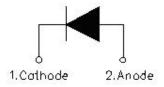
SDUR75H75W ULTRAFAST RECTIFIER



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
- Terminals finish: Tin Lead-free plated
- This is a Pb free device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Maximum Ratings(limiting values, TC =25°C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	750	V
Average Rectified Forward Current	I _{F (AV)}	Tc=58°C, In DC	75	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	400	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 75A, Pulse, T _J = 25°C	3.00	3.60	V
	V_{F2}	@ 75A, Pulse, T _J = 125°C	2.30	3.00	V
Reverse Current*	I _{R1}	$@V_R = rated V_R$ $T_J = 25^{\circ}C$	0.11	5	uA
	I _{R2}	@V _R = rated V _R T _J =125°C	0.05	1	mA
Reverse Recovery Time	t _{rr}	I _F =500mA,I _R =1A,and I _{rm} =250mA	38	50	ns

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

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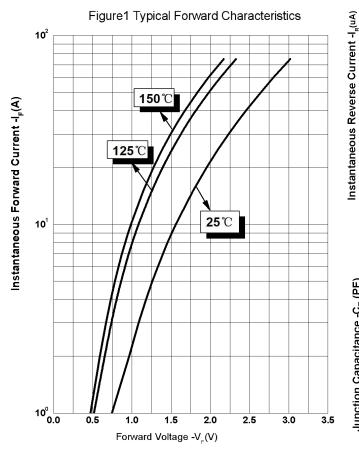


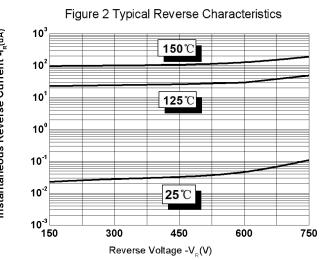


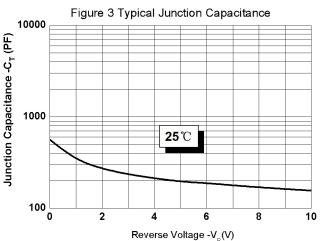
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°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-247AC			

Ratings and Characteristics Curves







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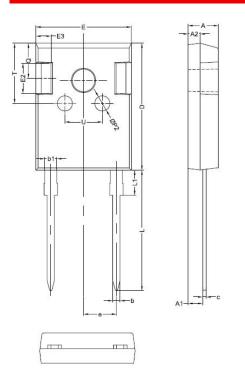


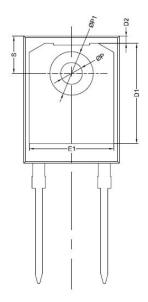
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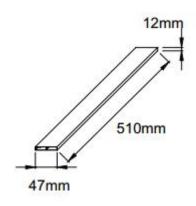
Mechanical Dimensions TO-247AC



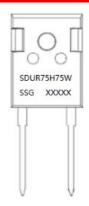


CVMDOL	Millimeters			
SYMBOL	MIN.	TYP.	MAX.	
Α	4.80	5.00	5.20	
A1	2.20	2.41	2.61	
A2	1.90	2.00	2.10	
b	1.10	1.20	1.35	
b1	1.80	2.00	2.20	
С	0.50	0.60	0.75	
D	20.30	21.00	21.20	
D1		16.58		
D2		1.17		
Ш	15.60	15.80	16.00	
E E1		14.02		
E2		5.00		
E3		2.50		
е		5.44		
L	19.42	19.92	20.42	
L1		4.13		
Р	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	
T		10.00		
U		6.20		

Tube Specification



Marking Diagram



Where XXXXX is YYWWL

 SDUR
 = Device Type

 75
 = Forward Current (75A)

 H
 = H

 75
 = Reverse Voltage (750V)

 W
 = Configuration

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
SDUR75H75W	TO-247AC(Pb-Free)	25pcs / tube

- China Germany Korea Singapore United States
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SDUR75H75W



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