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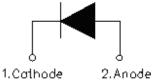
SDUR75120W ULTRAFAST PLASTIC RECTIFIER

Applications:

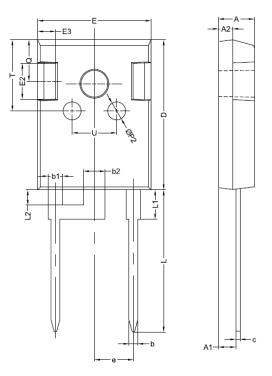
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- · Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

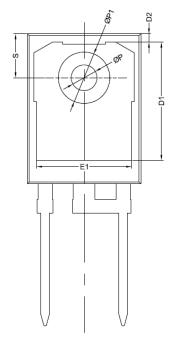
Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm





SYMBOL	MIN.	TYP.	MAX.	
Α	4.80	5.00	5.20	
A1 A2	2.21	2.41	2.61	
A2	1.90	2.00	2.10	
b	1.10	1.20	1.35	
b1		2.00		
b2		3.00		
С	0.55	0.60	0.75	
C D D1 D2 E E1	20.80	21.00	21.20	
D1		16.55		
D2		1.20		
Е	15.6	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 P		2.15		
Р	3.50	3.60	3.70	
P1	-	-	7.40	
P2		2.50		
P2 Q S T		5.80		
S	6.05	6.15	6.25	
		10.00		
U		6.20		

TO-247AC

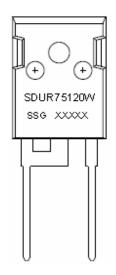
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type

75 = Forward Current (75A) 120 = Reverse Voltage (1200V)

W = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDUR75120W	TO-247AC (Pb-Free)	30 pcs / tube

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	1200	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=90°C, rectangular wave form	75	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	500	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 60A, Pulse, T _J = 25°C	3.5	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	100	uA
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	100	ns

• Pulse width $< 300 \mu s$, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{ ext{ hetaJC}}$	DC operation	0.65	K/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AC		•





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DISCLAIMER:

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