

Green Products

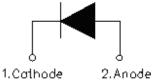
SDUR60100W ULTRAFAST PLASTIC RECTIFIER

Applications:

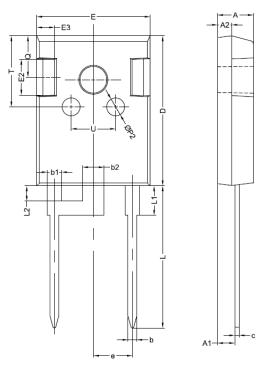
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

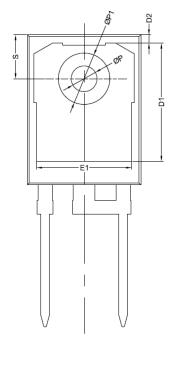
Features:

- 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	BOL MIN. TYP.		MAX.	
Α	4.80	5.00	5.20	
A1	2.21	2.41	2.61 2.10	
A2	1.90	2.00	2.10	
b b1	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		
E	15.6	15.8	16.0	
E1		13.30		
E2		5.00		
E2 E3		2.50		
e L		5.44		
L	19.42	19.92	20.42	
L1		4.13		
L2 P		2.15		
P	3.50	3.60	3.70	
P1	-	-	7.40	
P2		2.50		
Q		5.80		
P1 P2 Q S T	6.05	6.15	6.25	
T		10.00		
U		6.20		

TO-247AC

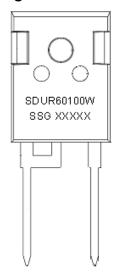
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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type

60 = Forward Current (60A) 100 = Reverse Voltage (1000V)

W = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDUR60100W	TO-247AC	30 pcs / tube
	(Pb-Free)	00 poo / tabo

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}	-	1000	V
Average Forward Current	I _{F (AV)}	50% duty cycle @Tc=60°C, rectangular wave form	60	Α
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	T _J =45°C 8.3ms, Half Sine pulse	540	Α

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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}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	500	μΑ
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	14000	μΑ
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
Junction Temperature	T_J	-	-40 to +150	°C
Storage Temperature	T _{stg}	-	-40 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{thJC}	DC operation	0.9	K/W
Approximate Weight	wt	-	6.0	g
Case Style		TO-247AC		





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