

Technical Data Data Sheet N0367, Rev. - **Green Products**

SDUR1560W ULTRAFAST PLASTIC RECTIFIER

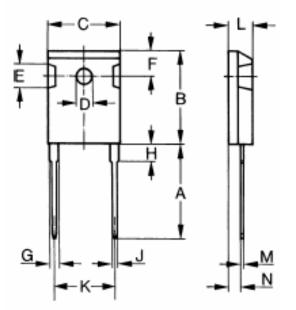
Applications:

- 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:

- Utra-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

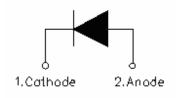
Mechanical Dimensions: In mm / Inches



Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	19.81	20.32	0.780	0.800
B	20.80	21.46	0.819	0.845
C	15.75	16.26	0.610	0.640
D	3.55	3.65	0.140	0.144
E	4.32	5.49	0.170	0.216
F	5.4	6.2	0.212	0.244
G	1.65	2.13	0.065	0.084
H		4.5	-	0.177
J	1.0	1.4	0.040	0.055
K	10.8	11.0	0.426	0.433
L	4.7	5.3	0.185	0.209
M	0.4	0.8	0.016	0.031
Ν	2.2	2.54	0.087	0.102

TO-247AC

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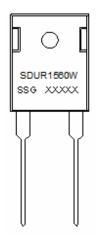




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Marking Diagram:



Where XXXXX is YYWWL

SDUR	= Device Type
15	= Forward Current (15A)
60	= Reverse Voltage (600V)
W	= Configuration
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	20 pag / tuba
SDURISOUW	(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}	-	600	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	15	A
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	160	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V _{F1}	@ 15A, Pulse, T _J = 25°C	1.7	V
	V _{F2}	@ 15A, Pulse, T _J = 125°C	1.5	V
Max. Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25°C	10	μA
	I _{R2}	$@V_R = rated V_R$ T _J = 125°C	1000	μA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

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

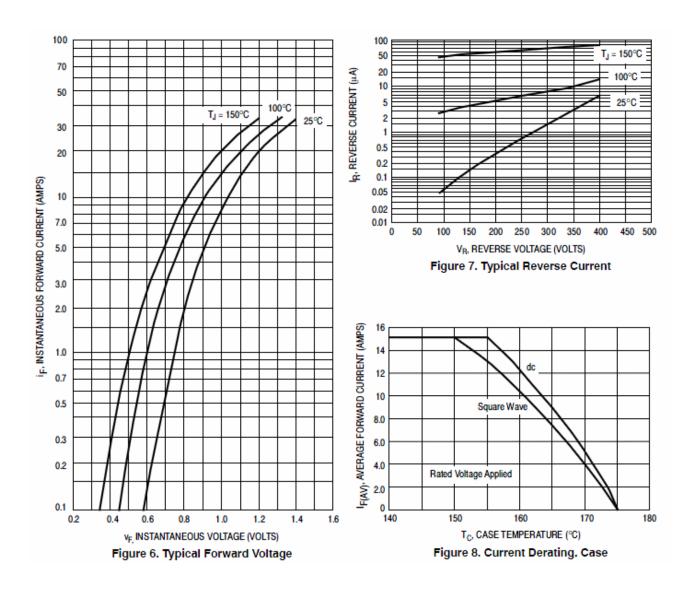
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +175	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	4	°C/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AC		·



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