

Technical Data Data Sheet N0366 Rev. -

SDUR1560 ULTRAFAST PLASTIC RECTIFIER

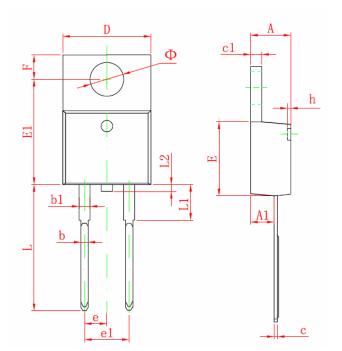
Applications:

- 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) and Marking:



Overshall	Dimensions In Millimeters		
Symbol	Min	Мах	
A	4.470	4.670	
A1	2.520	2.820	
b	0.710	0.910	
b1	1.170	1.370	
с	0.310	0.530	
c1	1.170	1.370	
D	10.010	10.310	
E	8.500	8.900	
E1	12.060	12.460	
e	2.540) TYP	
e1	4.980	5.180	
F	2.590	2.890	
h	0.000	0.300	
L	13.400	13.800	
L1	3.560	3.960	
L2		1.000	
Φ	3.735	3.935	

TO-220AC

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1.Cathode 2.Anode

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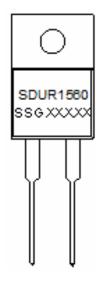


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Marking Diagram:



Where XXXXX is YYWWL

SDUR	= Device Type
15	= Forward Current (15A)
60	= Reverse Voltage (600V)
SSG	= SSG
ΥY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDUR1560	TO-220AC	Elines / tube
	(Pb-Free)	50pcs / 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
	I _{R1}	@V _R = rated V _R	10	μA
Max. Reverse Current*		T _J = 25°C		
	I _{R2}	@V _R = rated V _R	1000	μA
		T _J = 125°C		
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:

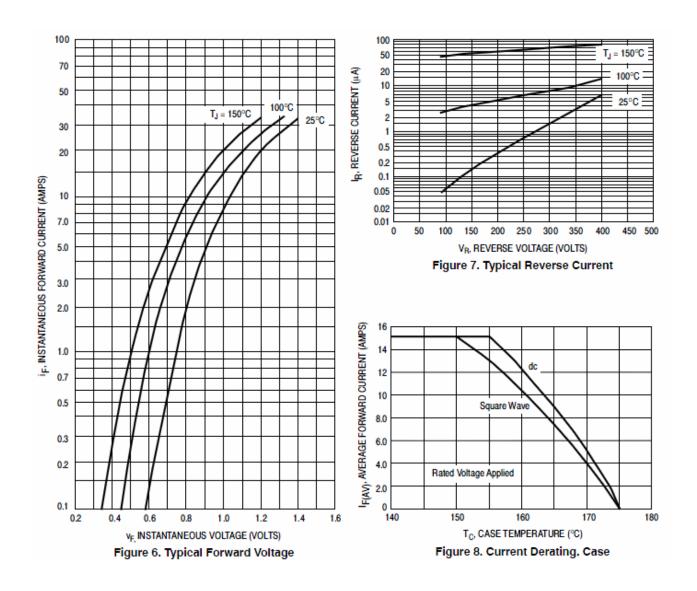
Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +175	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	R _{0JC}	DC operation	4	°C/W
Resistance Junction to Case				
Approximate Weight	wt	-	1.6	g
Case Style	TO-220AC			



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