

Green Products

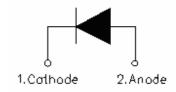
SDUR1060 ULTRAFAST PLASTIC RECTIFIER

Applications:

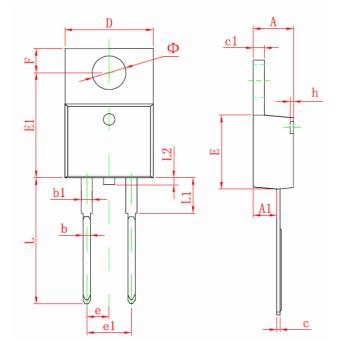
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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



Symbol	Dimensions In Millimeters		
	Min	Max	
Α	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	
е	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	
Ф	3.735	3.935	

TO-220AC

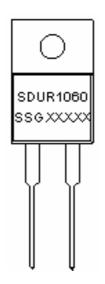
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type

10 = Forward Current (10A) 60 = Reverse Voltage (600V)

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDUR1060	TO-220AC (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
Average Forward Current	I _{F(AV)}	50% duty cycle @TC =100°C rectangular wave form	10	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	100	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V_{F1}	@ 10A, Pulse, T _J = 25℃	2.2	V
	V_{F2}	@ 10 A, Pulse, T _J = 100°C	2.0	V
Reverse Current	I _{R1}	@V _R = rated VR	10	μΑ
		T _J = 25℃		
	I _{R2}	@V _R = rated VR	500	μΑ
		T _J = 125℃		
Reverse Recovery Time	t _{rr}	$I_F=500$ mA, $I_R=1$ A, and $I_{rm}=250$ mA	32	ns

^{*} Pulse Width < 300µs, Duty Cycle <2%

Measured lead to lead 5 mm from package body

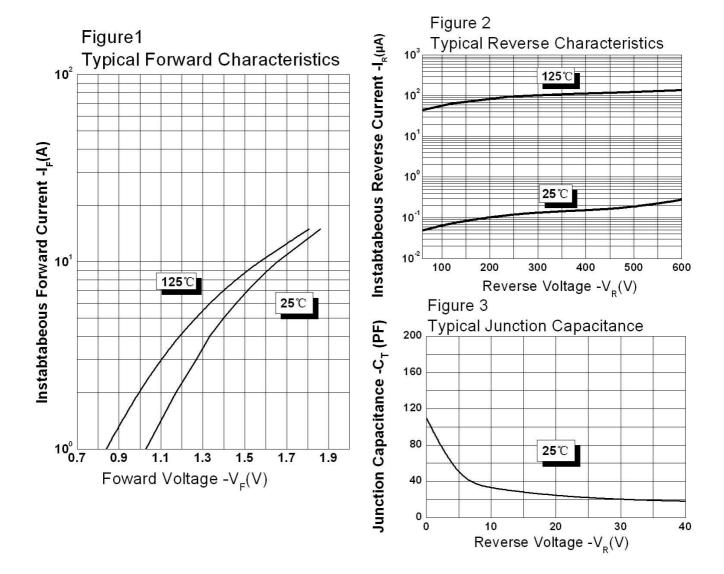
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T _J	-	-55 to +150	$^{\circ}$
Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}$ C
Maximum Thermal	$R_{\theta JC}$	DC operation	6.0	°C/W
Resistance Junction to Case				
Approximate Weight	wt	-	1.6	g
Case Style	TO-220AC			

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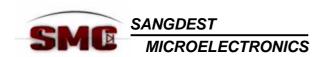
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