

Green Products

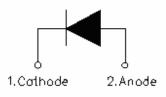
SDUR2060 ULTRAFAST PLASTIC RECTIFIER

Applications:

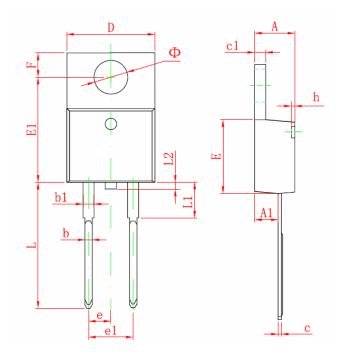
- Antiparallel diode for high frequency switching devices
- · Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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



Symbol	Dimensions In Millimeters		
Symbol	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

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type

20 = Forward Current (20A) 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
SDUR2060	TO-220AC	EO pos / tubo
	(Pb-Free)	50 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=105°C, rectangular wave form	20	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F}	@20A, Pulse, T _J = 25°C	2.0	V
Max. Reverse Current*	I _R	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	5	μA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

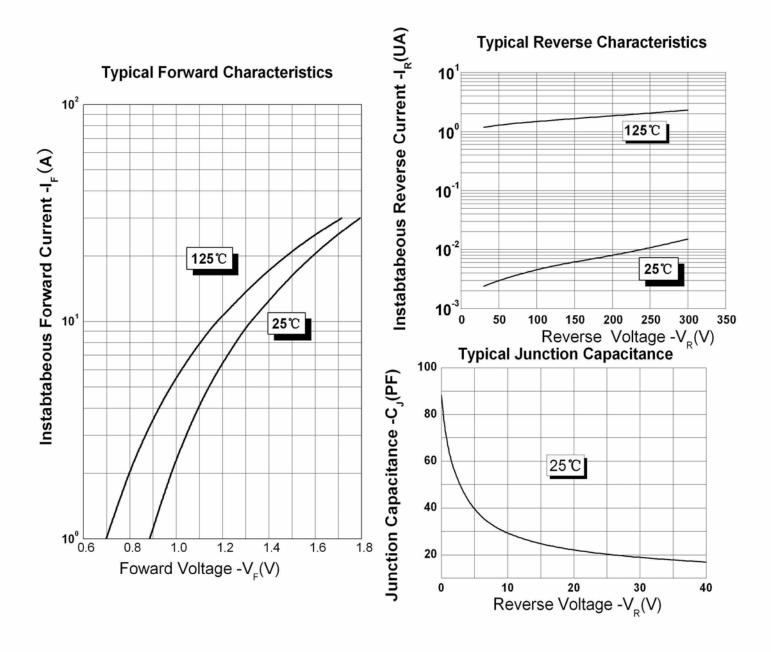
^{*} Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	2	K/W
Approximate Weight	wt	-	1.6	g
Case Style	TO-220AC			



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