

Green Products

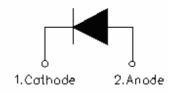
SDURF1060 ULTRAFAST PLASTIC RECTIFIER

Applications:

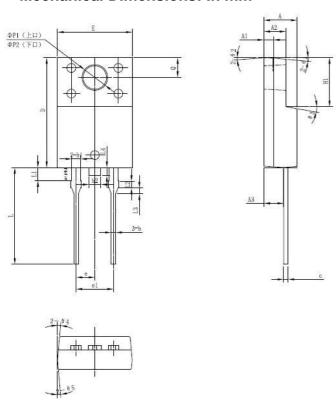
- Antiparallel diode for high frequency switching devices
- · Anti saturation diode
- Snubber diode
- . Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners 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	MIN. TYP.		MAX.
Α	4.30	4.50	4.70
A1	1.10 2.80	1.30	1.50
A2	2.80	3.00	3.20
A3 b	2.50	2.70	2.90 0.75
b	0.50	0.60	0.75
b1	1.10	1.20	1.35
b2	1.50	1.60	1.75
С	0.55	0.60	0.75
C D E	14.80	15.00	15.20
	9.96	10.16	10.36
е		2.55	-
e1		5.10	-
H1 L	6.50	6.70	6.90
L	12.70	13.20	13.70
L1 L2 L3 L4	1.60	1.80 1.00 0.80	2.00 1.20 1.00 1.50
L2	0.80	1.00	1.20
L3	0.60	0.80	1.00
L4		1.10	1.50
ΦP1(上口)	3.30	3.50	3.70 3.39
ΦP2 (下口)	2.99	3.19	3.39
Q Θ1	2.50	2.70	2.90
Θ1		5°	
Θ2		4°	
Θ2 Θ3		3.19 2.70 5° 4° 10°	
Θ4		5°	
Θ5		5°	

ITO-220AC(HD)

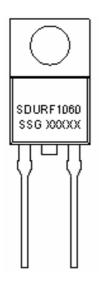
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type F = Package 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
SDURF1060	ITO-220AC (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
Average Forward Current	I _{F (AV)}	50% duty cycle @Tc=105℃, rectangular wave form	10	А
Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, 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°C	2.2	V
	V_{F2}	@ 10A, Pulse, T _J = 100°C	2.0	V
	I _{R1}	$@V_R = rated V_R$	10	μA
Reverse Current*		$T_J = 25^{\circ}C$		
	I_{R2}	$@V_R = rated V_R$	500	μΑ
		$T_J = 125^{\circ}C$		
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	32	ns

 $^{^{\}star}$ Pulse width < 300 μ s, duty cycle < 2%

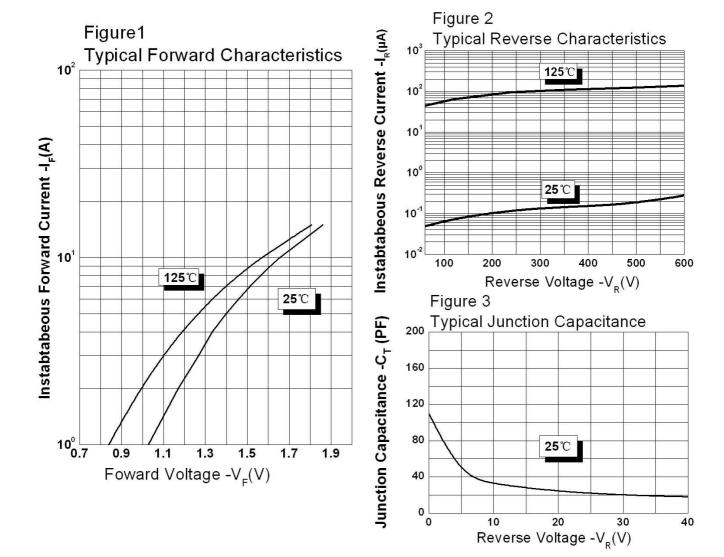
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	Τ _J	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	$R_{\theta JC}$	DC operation	6.0	°C/W
Resistance Junction to Case		DC operation	0.0	C/VV
Approximate Weight	wt	-	1.65	g
Case Style		ITO-220AC		_

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SDURF1060

Technical Data
Data Sheet N0011, Rev. C

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