

Green Products

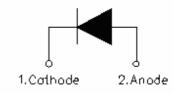
SDURF1525 ULTRAFAST PLASTIC RECTIFIER

Applications:

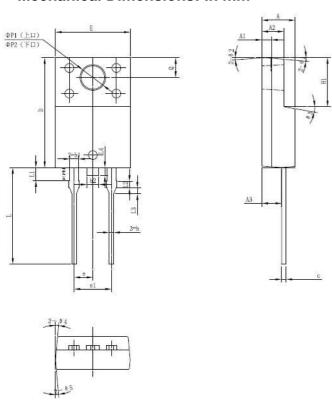
- · Antiparallel diode for high frequency switching devices
- · Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners 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 A2 A3 b	1.10 2.80	1.30	1.50	
A2	2.80	3.00	3.20	
A3	2.50	2.70	2.90	
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	
E	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	2.00 1.20 1.00	
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	
ΦP2 (下口)	2.99	3.19 2.70 5°	3.39	
Q Θ1	2.50	2.70	2.90	
Θ1		5°		
Θ2 Θ3		4° 10°		
Θ3		10°		
Θ4		5°		
Θ5		5°		

ITO-220AC(HD)

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type F = Package type

15 = Forward Current (15A) 25 = Reverse Voltage (250V)

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
SDURF1525	ITO-220AC	FO pag / tuba	
	(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}	-	250	٧
Average Forward Current	I _{F (AV)}	50% duty cycle @Tc=75℃, rectangular wave form	15	А
Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 15A, Pulse, T _J = 25°C	1.00	V
	I _{R1}	$@V_R = rated V_R$	10	μΑ
Reverse Current*		$T_J = 25^{\circ}C$		
	I _{R2}	$@V_R = rated V_R$	500	μΑ
		$T_J = 125$ °C		
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	35	ns

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

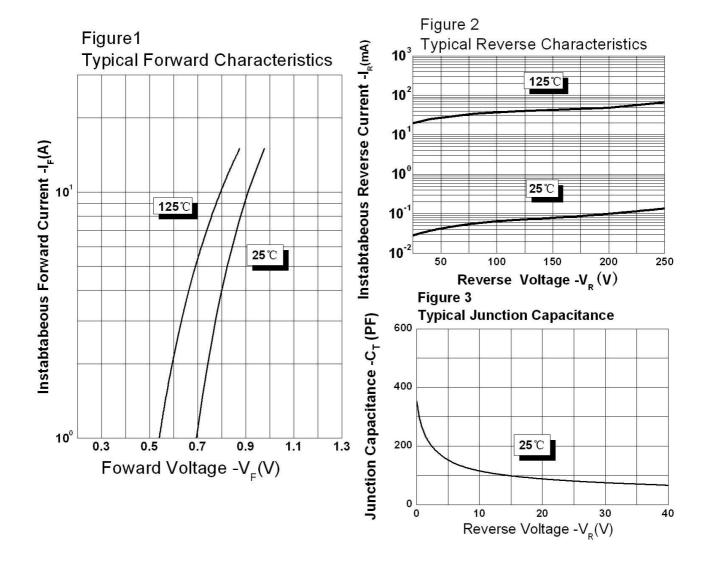
Thermal-Mechanical Specifications:

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

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SDURF1525

Technical Data Data Sheet N1517, Rev. - **Green Products**

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