SDURF1630CT



Technical Data Data Sheet N1081, Rev. -

SDURF1630CT ULTRAFAST PLASTIC RECTIFIER

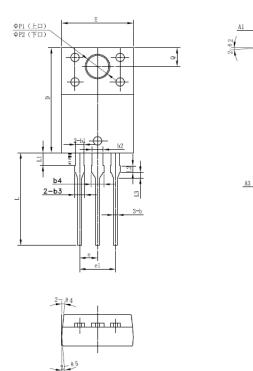
Applications:

- 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:

- Fully Molded Isolation
- Dual Diodes-Anode Common
- Ultra-Fast Recovery
- Low Forward Voltage Drop
- High Surge Capability
- 200 Volts thru 600 Volts Types Available
- 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	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
b3	1.20	1.30	1.45
b4	1.60	1.70	1.85
С	0.55	0.60	0.75
D	14.80	15.00	15.20
E	9.96	10.16	10.36
е		2.55	
e1		5.10	
H1	6.50	6.70	6.90
L	12.70	13.20	13.70
L1	1.60	1.80	2.00
L2 L3	0.80	1.00	1.20
L3	0.60	0.80	1.00
ΦΡ1(上口)	3.30	3.50	3.70 3.39
ΦΡ2 (下口)	2.99	3.19	3.39
Q	2.50	2.70	2.90
Θ1		5°	
Θ2		4°	
Θ3		10°	
Θ4		5°	
Θ5		5°	

ITO-220AB

Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 (86) 25-87123907 •
FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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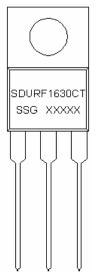


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Marking Diagram:



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

Ordering Information:

SDUR	= Device Type
F	= Package Type
16	= Forward Current (16A)

Where XXXXX is YYWWL

- 1 01 Waltu	ounchi	
= Reverse	Voltage	(300V)

00	rieveree voltage (ood
СТ	= Configuration

SSG = SSG

30

WW

L

YY = Year

= Week

= Lot Number

Device	Package	Shipping
SDURF1630CT	ITO-220AB (Pb Free)	50pcs / tube
	(Pb-Free)	50pcs / ti

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}	-	300	V
Average Rectified Forward Current	I _{F (AV)}	Rated Vr ,@Tc=105°C	16	А
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	80	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V _{F1}	@8A, Pulse, T _J = 25°C	1.3	V
(Per leg)	V _{F2}	@8A, Pulse, T _J = 125°C	1.2	V
	I _{R1}	$@V_R = rated V_R$	10	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	I _{R2}	$@V_R = V_R$	500	μA
		T _J = 125°C		
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	45	ns

* Pulse width < 300 $\mu s, \ duty \ cycle < 2\%$

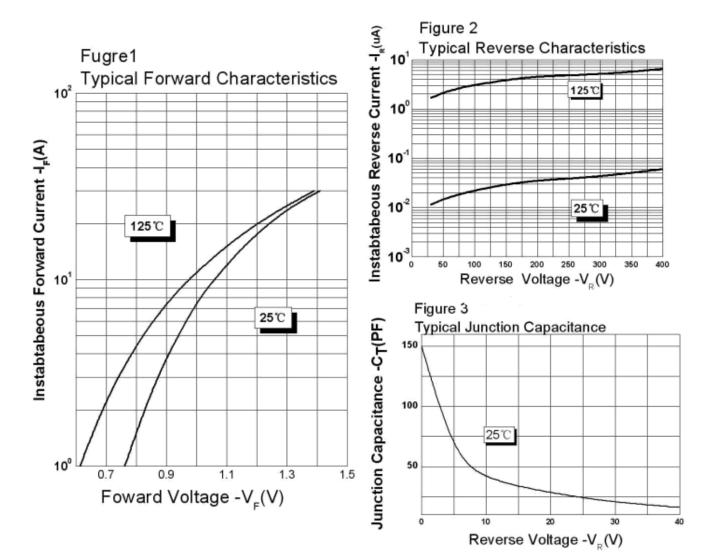
Thermal-Mechanical Specifications:

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	$R_{ ext{ heta}JC}$	DC operation	5.0	°C/W
Approximate Weight	wt	-	2	g
Case Style	ITO-220AB			



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SANGDEST MICROELECTRONICS

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