

1.Cathode

2. Anode

SDURF1520CTR

3.Cathode

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SDURF1520CT/CTR ULTRAFAST PLASTIC RECTIFIER

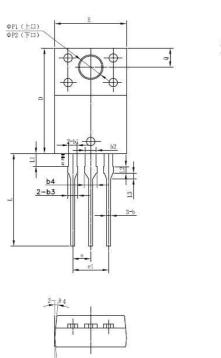
Applications:

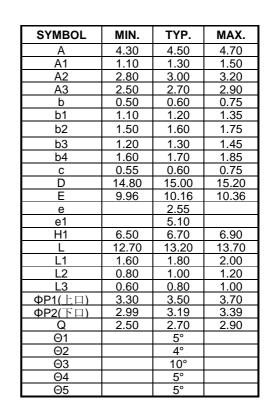
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

Features:

- Fully Molded Isolation
- Dual Diodes-Cathode 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





SDURF1520CT

OPTION 1

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 •

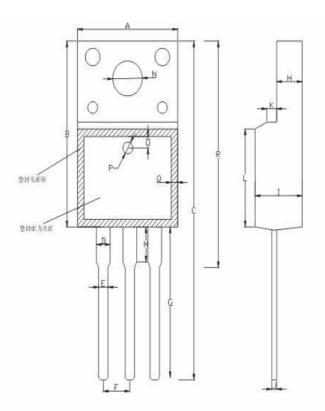


Technical Data

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A:10.20	$) \pm 0.50$	B:15.90	±0.50	C:29.00	± 1.00	D:1.24	± 0.10
E:0.80	± 0.10	F:2.54	± 0.10	G:13.10	$\pm 1,0$	H:2.55	± 0.05
I:4.70	± 0.05	J:0.50	± 0.05	K:1.20	± 0.20	L:8.00	± 0.50
M:3.00	± 0.50	N:3.20	± 0.20	O:1,25	± 0.05	P:1.5	± 0.05
Q:1.0	±0.20	R:19.2	± 1.0				

OPTION 2(SR)

ITO-220AB

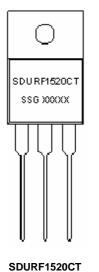
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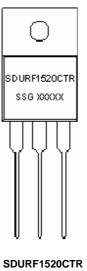


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Marking Diagram:





Where XXXXX is YYWWL

SDUR	= Device Type
F	= Package Type
15	= Forward Current (15A)
20	= Reverse Voltage (200V)
CT/CTR	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Ordering Information:

Device	Package	Shipping
	ITO-220AB	EOpoo / tubo
SDURF1520CT/CTR	(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}	-	200	V
Average Rectified Forward Current	I _{F (AV)}	Rated Vr ,@Tc=105℃	15	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	1.2	V
	V _{F2}	@ 8A, Pulse, T _J = 150°C	1.1	V
Max. Reverse Current*	I _{R1}	$@V_R = rated V_R$ T _J = 25°C	5	μA
	I _{R2}	$@V_R = rated V_R$ T _J = 125°C	500	uA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A, and I_{rm} =250mA	35	ns

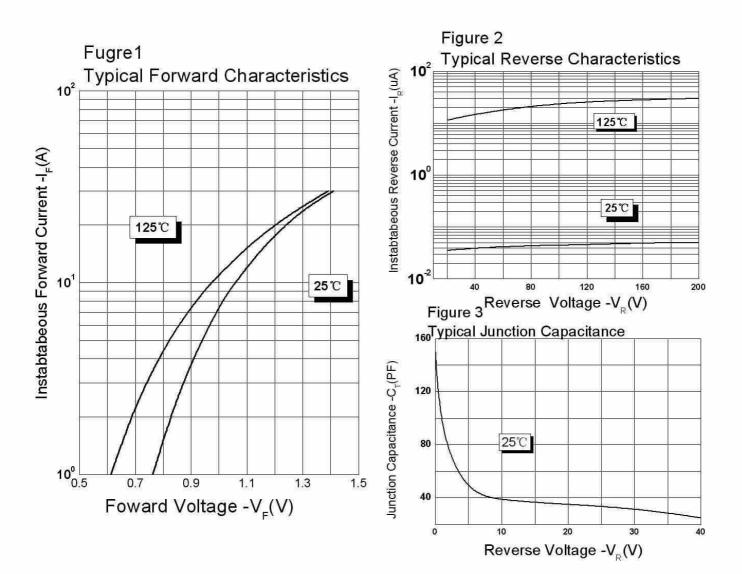
* Pulse width < 300 $\mu s, \ duty \ cycle < 2\%$

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	$R_{ extsf{ heta}JC}$	DC operation	5	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		



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