

1.Cathode

2. Anode

SDURF1520CTR

3.Cathode

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SDURF1520CT/CTR ULTRAFAST PLASTIC RECTIFIER

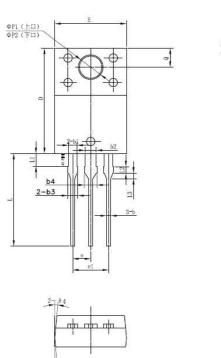
Applications:

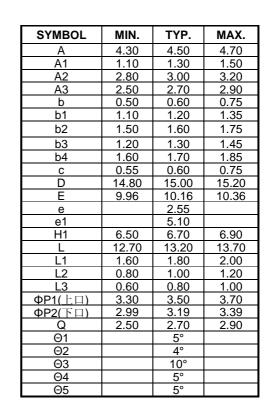
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

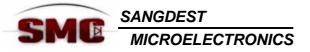




SDURF1520CT

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 •

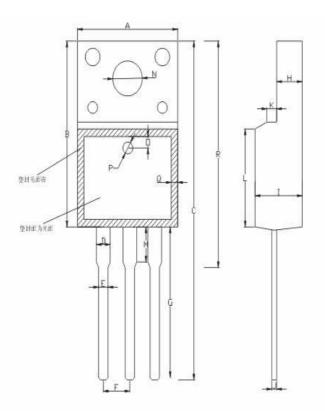


Technical Data

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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

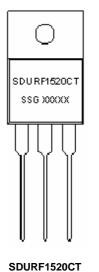
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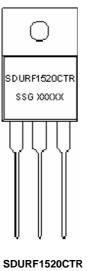


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Marking Diagram:





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 |

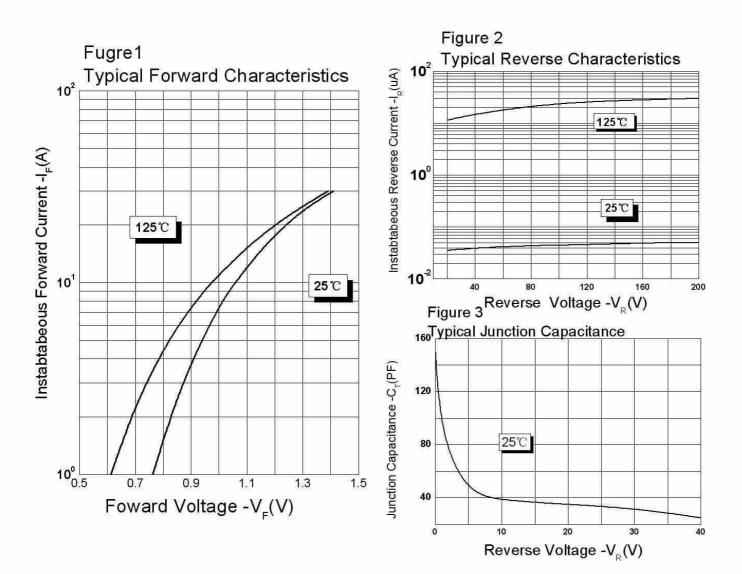
* Pulse width < 300 $\mu s, \ duty \ cycle < 2\%$

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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