

Technical Data Data Sheet N1277, Rev. -

Green Products

SDURF1540CT/CTR ULTRAFAST PLASTIC RECTIFIER

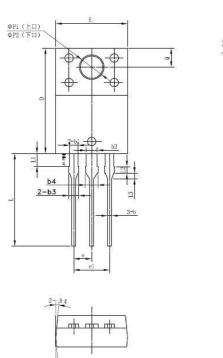
Applications:

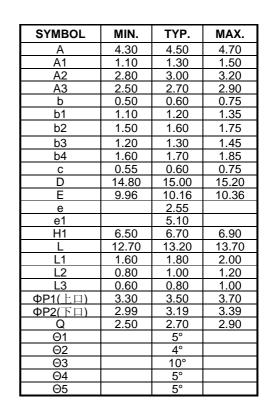
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

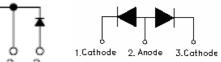
Mechanical Dimensions: In mm





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 •

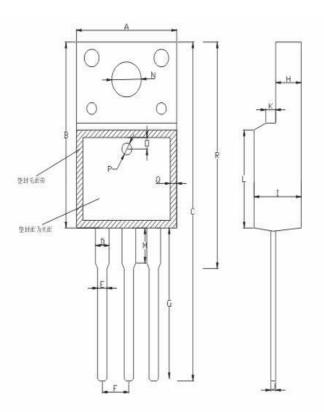


SDURF1540CT

SDURF1540CTR



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A:10.20 ± 0.50	$B:15.90 \pm 0.50$	C:29.00 ± 1.00	D:1.24 ±0.10
E:0.80 ±0.10	F:2.54 ± 0.10	G:13.10 ± 1,0	$\rm H{:}2.55\ \pm 0.05$
I:4.70 ± 0.05	$J:0.50 \pm 0.05$	K:1.20 ±0.20	$L:8.00 \pm 0.50$
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

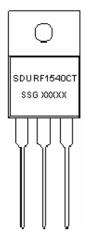
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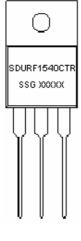


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Marking Diagram:





Where XXXXX is YYWWL

SDUR	= Device Type
F	= Package Type
15	= Forward Current (15A)
40	= Reverse Voltage (400V)
CT/CTR	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

SDURF1540CT

SDURF1540CTR

Ordering Information:

Device	Package	Shipping
SDURF1540CT/CTR	ITO-220AB	EQnac / tuba
	(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}	-	400	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	1.3	V
	V _{F2}	@ 8A, Pulse, T _J = 150°C	1.2	V
Max. Reverse Current*	I _{R1}	$@V_R = rated V_R$ T _J = 25°C	10	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	45	ns

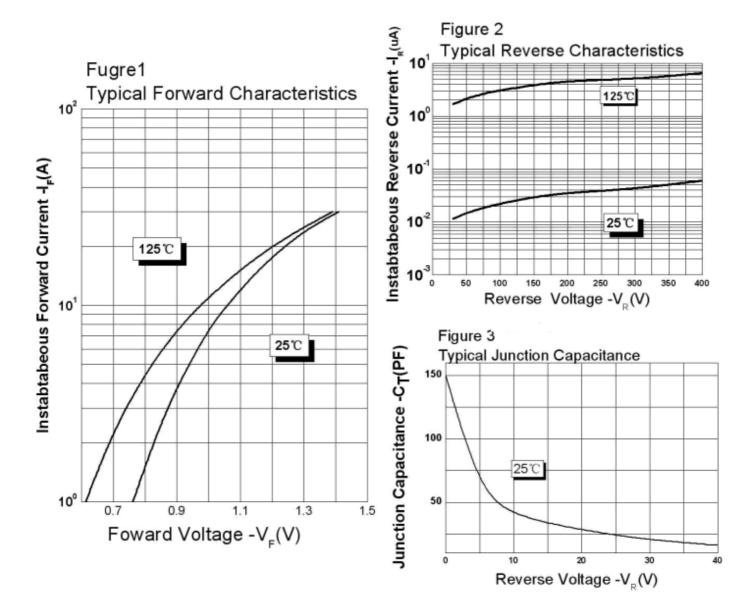
* Pulse width < 300 $\mu s, \ duty \ cycle < 2\%$

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	ΤJ	-	-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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