

Green Products

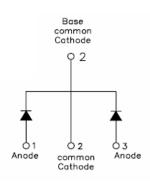
SDURF2030CT ULTRAFAST PLASTIC RECTIFIER

Applications:

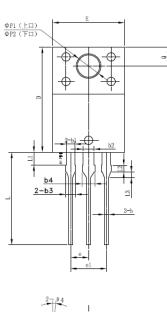
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- · Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners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

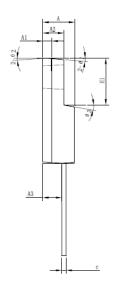
Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- 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







OTHIDOL	141114.		IVI/A/A
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
c D E	0.55	1.70 0.60	0.75
D	14.80	15.00	15.20
Ш	9.96	10.16 2.55	10.36
е		2.55	
e1		5.10	
H1	6.50	6.70	6.90
Ц	12.70	13.20	13.70
L1	1.60	1.80	2.00
L2	0.80	1.00	1.20
L3	0.60	1.00 0.80	2.00 1.20 1.00
ΦP1(上口)	3.30	3.50	3.70
ΦP2(下口)	2.99	3.19 2.70	3.39
Q	2.50	2.70	2.90
Θ1		5°	
Θ2		4°	
Θ3		10°	
Θ4		5°	
Θ5		5°	

MIN. TYP.

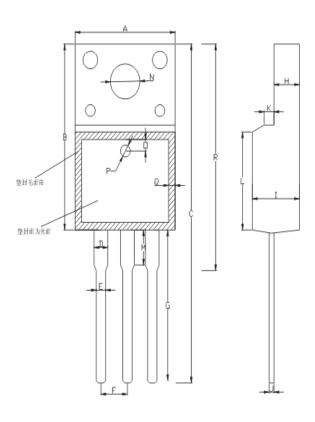
SYMBOL

OPTION 1(HD)

- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •



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A:10.20	± 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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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type F = Package type

20 = Forward Current (20A) 30 = Reverse Voltage (300V)

CT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDURF2030CT	ITO-220AB (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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} oldsymbol{V}_RRM \ oldsymbol{V}_R \end{array}$	-	300	V
Average Rectified Forward Current	I _{F(AV)}	50% duty cycle @Tc=100°C, rectangular wave form	20	Α
Peak One Cycle Non-Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	125	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (Per leg)*	V _F	@10A, Pulse, T _J = 25°C	1.3	V
Reverse Current(Per leg)*	I _R	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	30	μA
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	45	ns

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

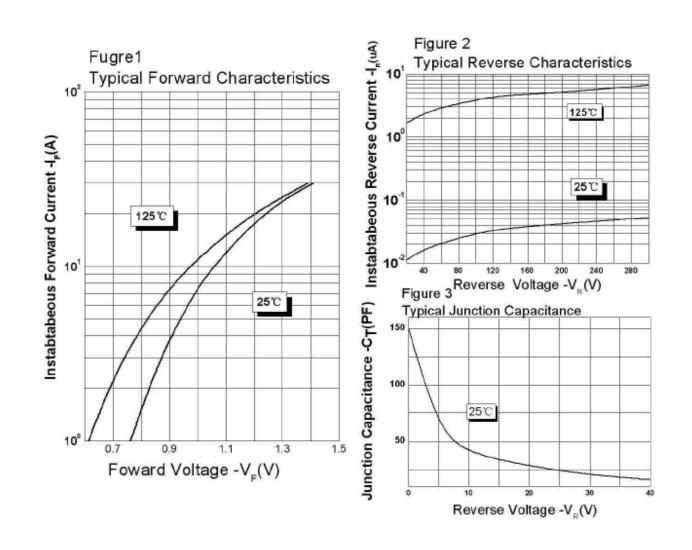
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +175	°C
Storage Temperature	T_{stg}	-	-55 to +175	°C
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	5.0	°C/W
Approximate Weight	wt	-	2	g
Case Style	ITO-220AB			

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SDURF2030CT

Technical Data Data Sheet N0409, Rev. A

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