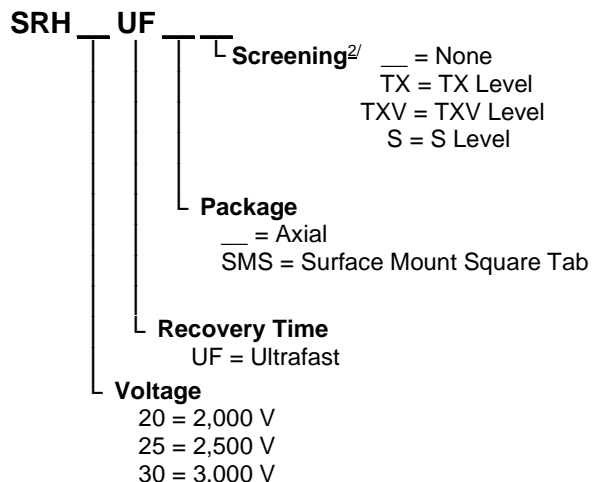


SRH20UF thru SRH30UF Series

Designer's Data Sheet

Part Number / Ordering Information ^{1/}



1.5 AMP
2,000 - 3,000 VOLTS
ULTRAFAST RECOVERY
HIGH VOLTAGE RECTIFIER

FEATURES:

- Ultrafast Recovery: 90 nsec Maximum
- PIV to 3 KV
- Hermetically Sealed Axial and Surface Mount Package
- Void-Free Ceramic Frit Glass Construction
- High Temperature Category I Eutectic Metallurgical Bond
- Excellent Thermal Shock Performance
- For Use in High Voltage Systems
- 175°C Maximum Operating Temperature
- Smaller-Sized Replacement for 1N6512 thru 1N6515 and 1N6520 thru 1N6523 in Many Applications
- TX, TXV, and Space Level Screening Available^{2/}
- Available in Fast and Hyper Fast Versions. Contact Factory.

ELECTRICAL CHARACTERISTICS

Part Number	Peak Inverse Voltage	Average Rectifier Current		Maximum Reverse Current		Maximum Forward Voltage	Maximum Surge Current (see note 8)	Maximum Reverse Recovery Time	Maximum Junction Capacitance	Typical Thermal Resistance	
Symbol	PIV	I _O		I _R		V _F	I _{FSM}	t _{RR}	C _J	R _{θJE}	R _{θJL}
Units		A		μA		Volts	Amps	nsec	pF	°C/W	
Conditions	Volts	25°C	100°C	25°C	100°C	25°C	25°C	25°C	VR = 100 V fT = 1 MHZ		L = 1/8"
SRH20UF	2000	1.5	1.0	0.5	15	6.5	60	90	10	4	8
SRH25UF	2500	1.5	1.0	0.5	15	6.5	60	90	10	4	8
SRH30UF	3000	1.5	1.0	0.5	15	6.5	60	90	10	4	8

1/ For ordering information, price, and availability – Contact factory.

2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ Operating and testing over 10,000 V/inch may require encapsulation or immersion in a suitable dielectric material.

4/ I_F = I_O; Max. forward voltage measured with instantaneous forward pulse of 300μsec minimum.

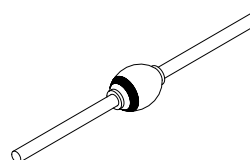
5/ Max. Lead/End Tab temp. for soldering is 250°C, 3/8" from case for 5 sec maximum.

6/ Operating and storage temperature: -65°C to +175°C.

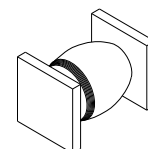
7/ Reverse recovery test conditions: I_F = 0.5 A, I_R = 1.0 A, IRR = .25 A, T_A = 25°C.

8/ Surge at 1 ms square pulse. 1 cycle.

Axial



Surface Mount Square Tab



This device is a replacement for SSDI's SDH20UF through SDH30UF family of devices.
This device offers superior performance in V_F & I_R.

NOTE: All specifications are subject to change without notification.
 SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RC0166B

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Solid State Devices, Inc.

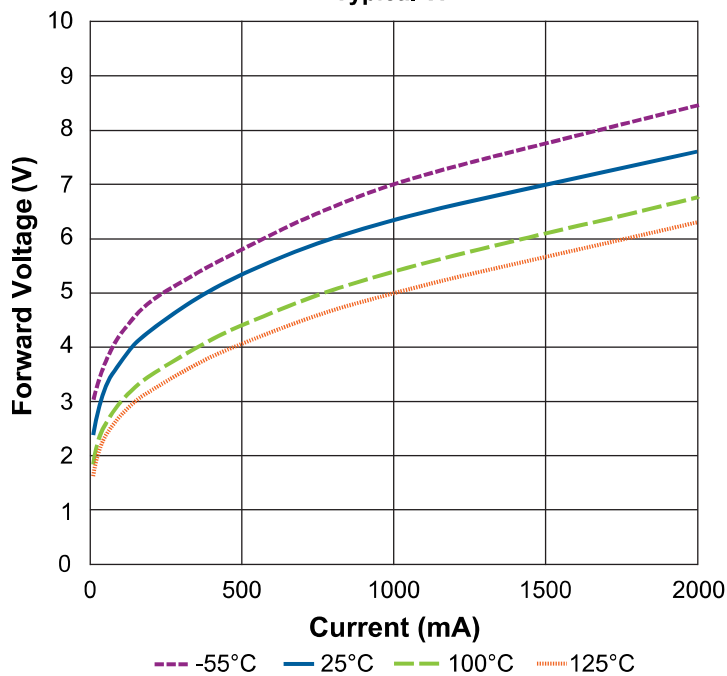
14701 Firestone Blvd * La Mirada, Ca 90638

Phone: (562) 404-4474 * Fax: (562) 404-1773

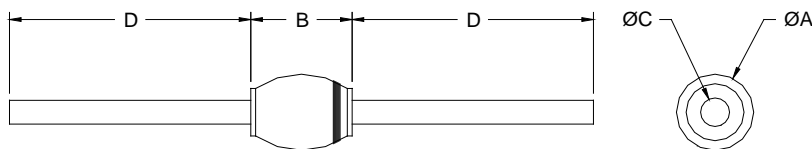
ssdi@ssdi-power.com * www.ssdi-power.com

SRH20UF thru SRH30UF Series

SRH30UF
Typical VF

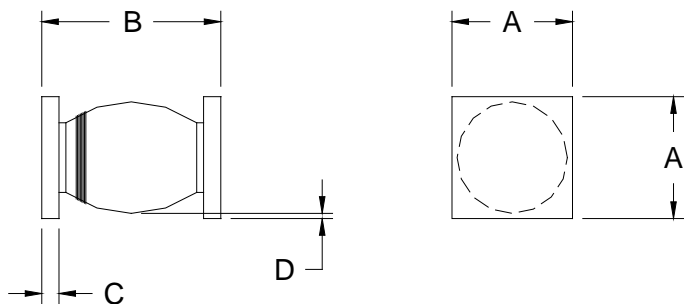


PACKAGE OUTLINE: Axial



DIMENSIONS		
DIM	MIN	MAX
A	—	0.150"
B	0.200"	0.240"
C	0.048"	0.052"
D	1.00"	—

PACKAGE OUTLINE: Surface Mount Square Tab



DIMENSIONS		
DIM	MIN	MAX
A	0.170"	0.180"
B	0.250"	0.295"
C	0.020"	0.030"
D	0.002"	—

Notes:

Consult manufacturing for operating curves.

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RC0166B

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