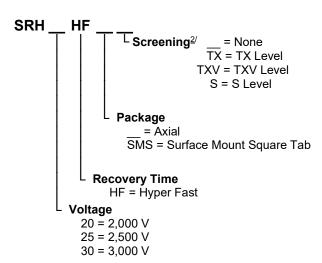


Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

Part Number / Ordering Information 1/



SRH20HF thru SRH30HF **Series**

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

FEATURES:

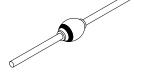
- Hyper Fast Recovery: 40 nsec Maximum
- PIV to 3 KV
- Hermetically Sealed Axial and Surface Mount Package
- Void-Free Ceramic Frit Glass Construction
- High Temperature Category I Eutectic Metallurgical Bond
- Excellent Thermal Shock Performance
- · For use in high voltage systems
- 175°C Maximum Operating Temperature
- TX, TXV, and Space Level Screening Available^{2/}
- Available in Fast and Ultra 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	The	oical rmal stance
Symbol	PIV	Ю		IR		VF	IFSM	tRR	CJ	R ₀ JE	RøJL
Units			A	μΑ		Volts	Amps	nsec	pF	°C	:/W
Conditions	Volts	25°C	100°C	25°C	100°C	25°C	25°C	25°C	VR = 100V fT = 1MHZ		L = 1/8"
SRH20HF	2000	1.0	0.5	0.75	40	8.5	35	40	10	4	8
SRH25HF	2500	1.0	0.5	0.75	40	8.5	35	40	10	4	8
SRH30HF	3000	1.0	0.5	0.75	40	8.5	30	40	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: IF=0.5A, IR=1.0A, IRR=.25A, TA=25°C.
- 8/ Surge at 1 ms square pulse. 1 cycle.

Axial

Surface Mount Square Tab





This device is a replacement for SSDI's SDH20HF through SDH30HF family of devices. This device offers superior performance in V_F & I_R.

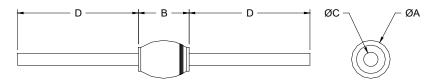


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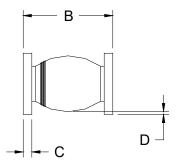
SRH20HF thru SRH30HF Series

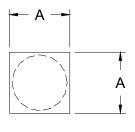
PACKAGE OUTLINE: Axial



DIMENSIONS							
DIM	MIN	MAX					
Α	_	0.150"					
В	0.200"	0.240"					
С	0.048"	0.052"					
D	1.00"						

PACKAGE OUTLINE: Surface Mount Square Tab





DIMENSIONS							
DIM	MIN	MAX					
Α	0.170"	0.180"					
В	0.250"	0.295"					
С	0.020"	0.030"					
D	0.002"						

Notes:

Consult manufacturing for operating curves.