

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

S1AFL THRU S1MFL

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low forward voltage drop
- * High forward surge capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

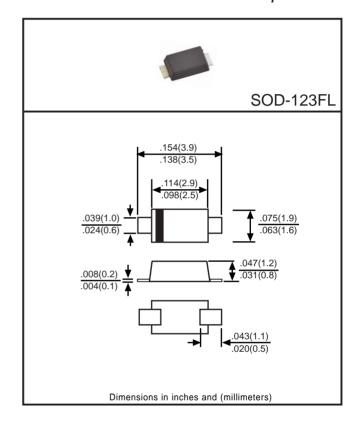
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.017 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



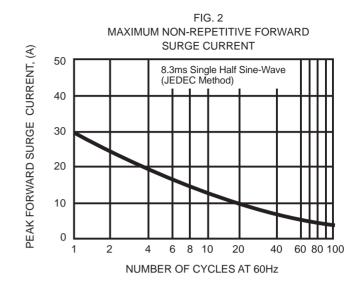
		SYMBOL	S1AFL	S1BFL	S1DFL	S1GFL	S1JFL	S1KFL	S1MFL	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 55°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C	l _R	5.0 50							μAmps
	@ T _A =100°C	IR								
Typical Thermal Resistance (Note 1)		Rөла	150							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							°C

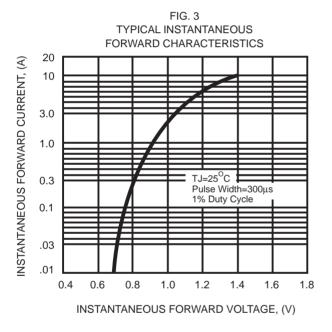
Note 1: Typical thermal resistance from junction to ambient.

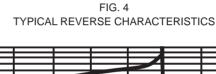
REV-3,MAY,2017 1 www.dccomponents.com

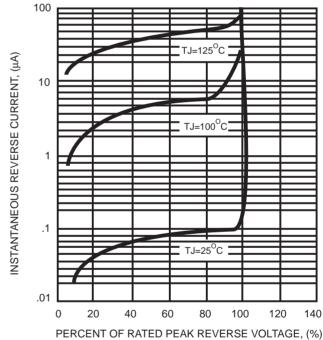
RATING AND CHARACTERISTIC CURVES (S1AFL THRU S1MFL)

FIG. 1 TYPICAL FORWARD CURRENT **DERATING CURVE** 1.0 AVERAGE FORWARD CURRENT, (A) .8 .6 .4 Single Phase Half Wave 60Hz .2 Resistive or Inductive Load 0 0 25 50 75 100 125 150 AMBIENT TEMPERATURE, (°C)









REV-3,MAY,2017 2 www.dccomponents.com

Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on DC COMPONENTS's knowledge of typical requirements that are often placed on DC COMPONENTS products in generic applications. Such statements are not binding statements about the suitability of products for aparticular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS*'s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by DC Components manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP