

# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

S03AFL THRU S03MFL

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 0.3 Ampere

#### **FEATURES**

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

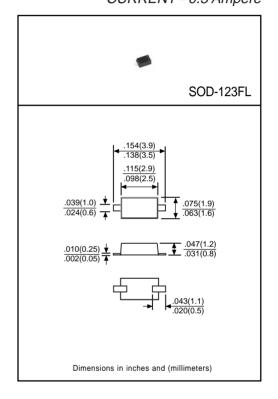
#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant \*Terminals: Solder plated, solderable per
  - MIL-STD-750, Method 2026
- \* Polarity: As marked \* Mounting position: Any \* Weight: 0.017 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



		SYMBOL	S03AFL	S03BFL	S03DFL	S03GFL	S03JFL	S03KFL	S03MFL	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		lo	0.3							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	10							Amps
Maximum Forward Voltage at 0.3A DC		VF	1.1							Volts
Maximum DC Reverse Current at	@TA = 25°C	In.	IR 5.0						uAmp	
Rated DC Blocking Voltage	@TA = 125°C	IR IR	50							uAllips
Typical Thermal Resistance (Note 1)		Reja	220							°C/W
Operating and Storage Temperature Range		TJ, TSTG		-55 to + 150						

NOTES: 1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

## **RATING AND CHARACTERISTIC CURVES (S03AFL THRU S03MFL)**

