## FR101FL THRU FR107FL

## SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-1A

## Reverse Voltage-50V to 1000V

#### **FEATURES**

- For surface mount applications
- Glass passivated chip junction
- Low profile package
- Fast reverse recovery time
- Lead free in comply with EU RoHS2011/65/EU directives

### **MECHANICAL DATA**

- Case: SOD-123FL molded plastic body
- Terminals: Solderable per MIL-STD-750, Method2026
- Weight: Approximated 0.015 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	FR101FL	FR102FL	FR103FL	FR104FL	FR105FL	FR106FL	FR107FL	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc=125℃	I <sub>F(AV)</sub>	1						A	
Peak Forward Surge Current (Note1)	IFSM	30					А		
Maximum Forward Voltage at 1.0 A	VF	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at $T_A=25^{\circ}$ C $T_A=125^{\circ}$ C	I <sub>R</sub>	5 100					uA		
Typical Junction Capacitance at $V_R$ =4V, f=1MHz	CJ	15					pF		
Maximum Reverse Recovery Time (Note2)	Trr	150 250 500			nS				
Typical Thermal Resistance (Note3)	Reja	85					°C/W		
Operating and Storage Temperature Range	Tj,Tstg	-55 to +150					°C		

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

3. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



## AGERTECH MICROELECTRONICS

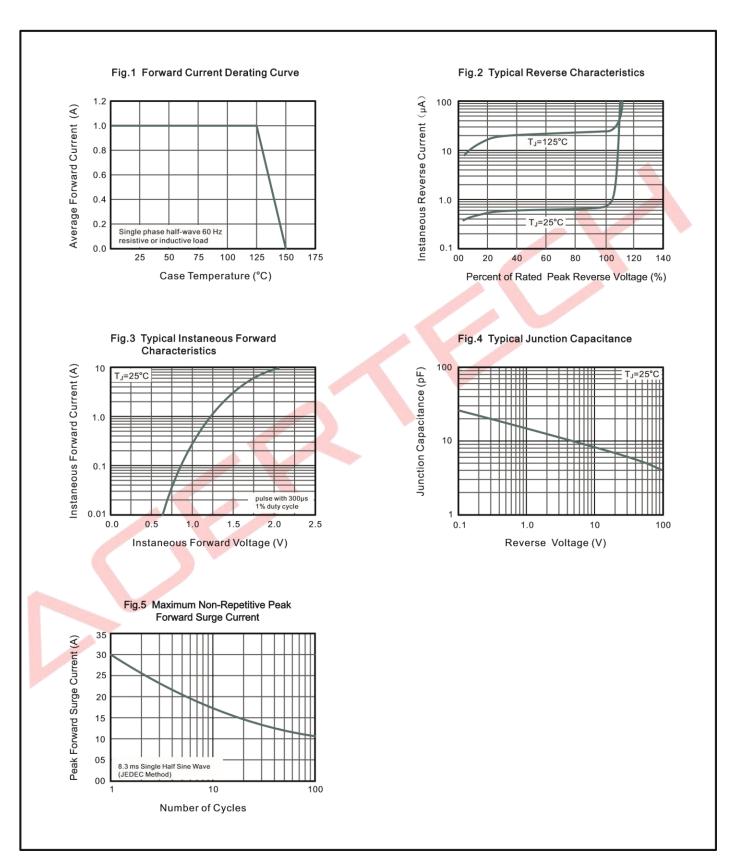
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PINNING	
PIN	DESCRIPTION
1	Cathode
2	Anode



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## RATINGS AND CHARACTERISTIC CURVES

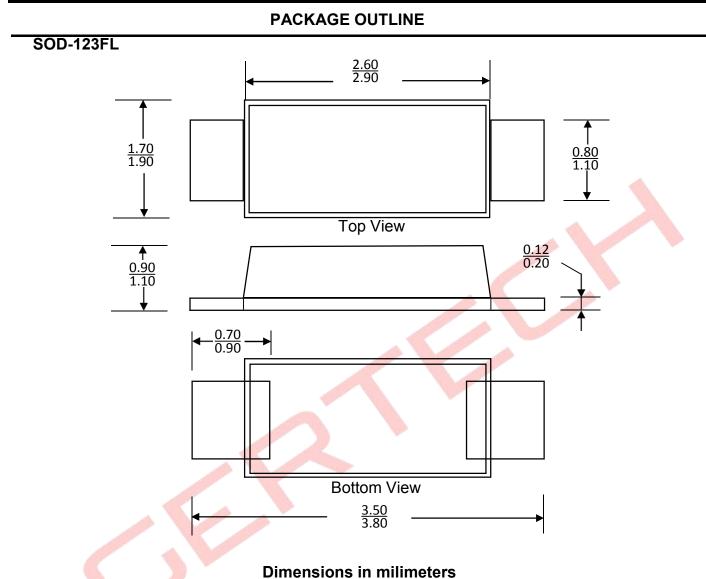


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## FR101FL THRU FR107FL



## Marking

Type number	Marking code
FR101FL	
FR102FL	F2
FR103FL	ΓZ
FR104FL	
FR105FL	F5
FR106FL	F7
FR107FL	Γ/



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