Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 50 to 000 V

Forward Current - A

PINNING

PIN	DESCRIPTION
	Cathode
2	Anode



Simplified outline SOD- 23FL and symbol

FEATURES
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 20 /65/EU directives

MECHANICAL DATA
- Case: SOD- 23FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5mg 0.00053oz

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	FR 0 W	FR 02W	FR 03W	FR 04W	FR 05W	FR 06W	FR 07W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	00	200	400	600	800	000	V
Maximum RMS voltage	V_{RMS}	35	70	40	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	00	200	400	600	800	000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}				30				A
Maximum Forward Voltage at A	V_F				.3				V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a = 25 °C	I_R				5 00				μA
Typical Junction Capacitance at V_R=4V, f= MHz	C_j				5				pF
Maximum Reverse Recovery Time ( )	t_{rr}				50		250	500	ns
Typical Thermal Resistance (2)	$R_{\theta JA}$ $R_{\theta JC}$				5 25				°C/W
Operating and Storage Temperature Range	T_j, T_{stg}				-55 ~ + 50				°C

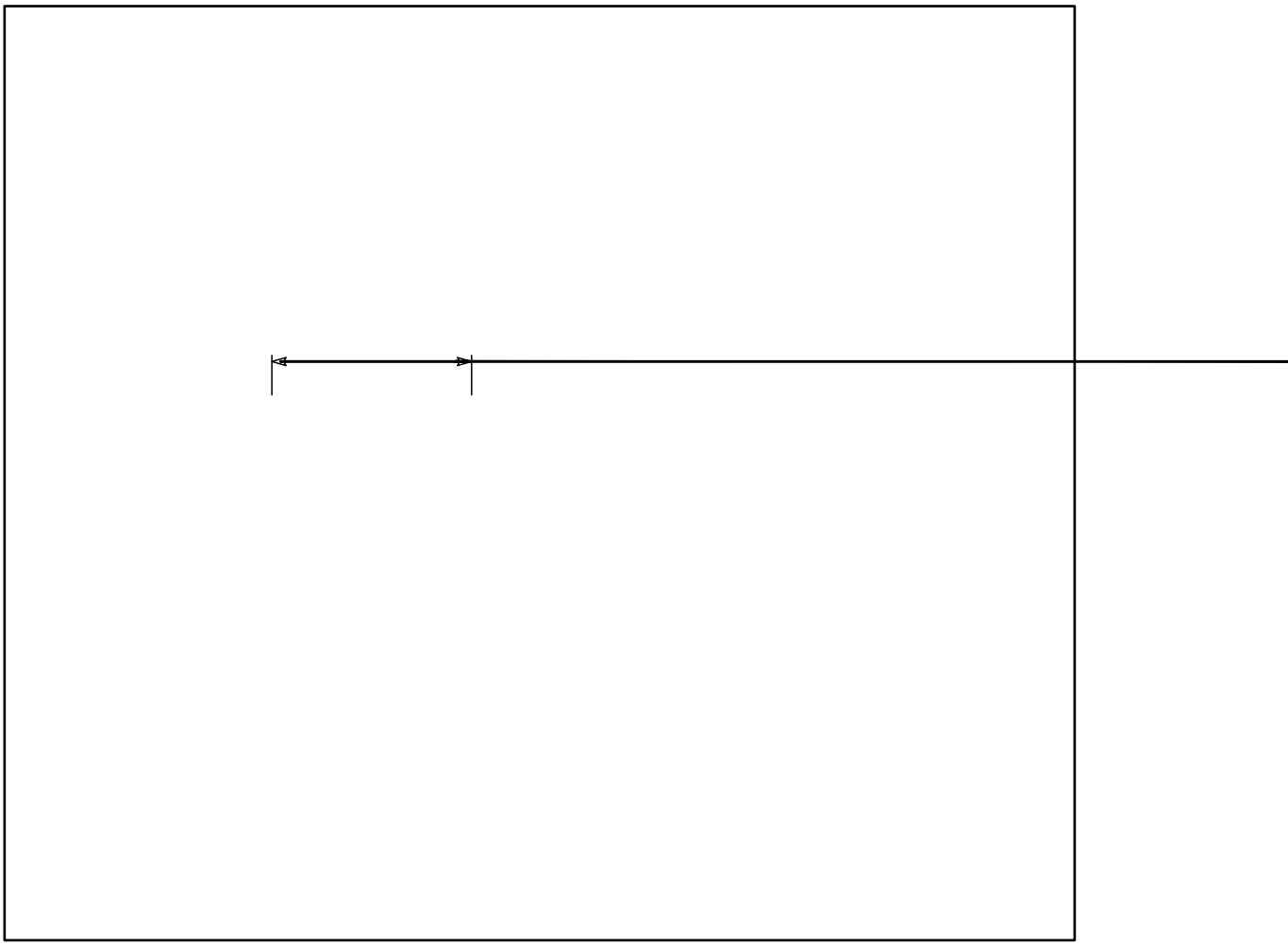
( ) Measured with I_F = 0.5 A, I_R = A, I_{rr} = 0.25 A.

(2) P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD- 23FL



Marking

Type number	Marking code
FR 0 W	F2
FR 02W	
FR 03W	
FR 04W	
FR 05W	F5
FR 06W	F7
FR 07W	

o £ ´ N E , o £ ´ Q / ¢

01 Rev 1.1 / ó P ῆ ĝ

Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.
Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or nce or custom on ity for applicdice or any paw t e+