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

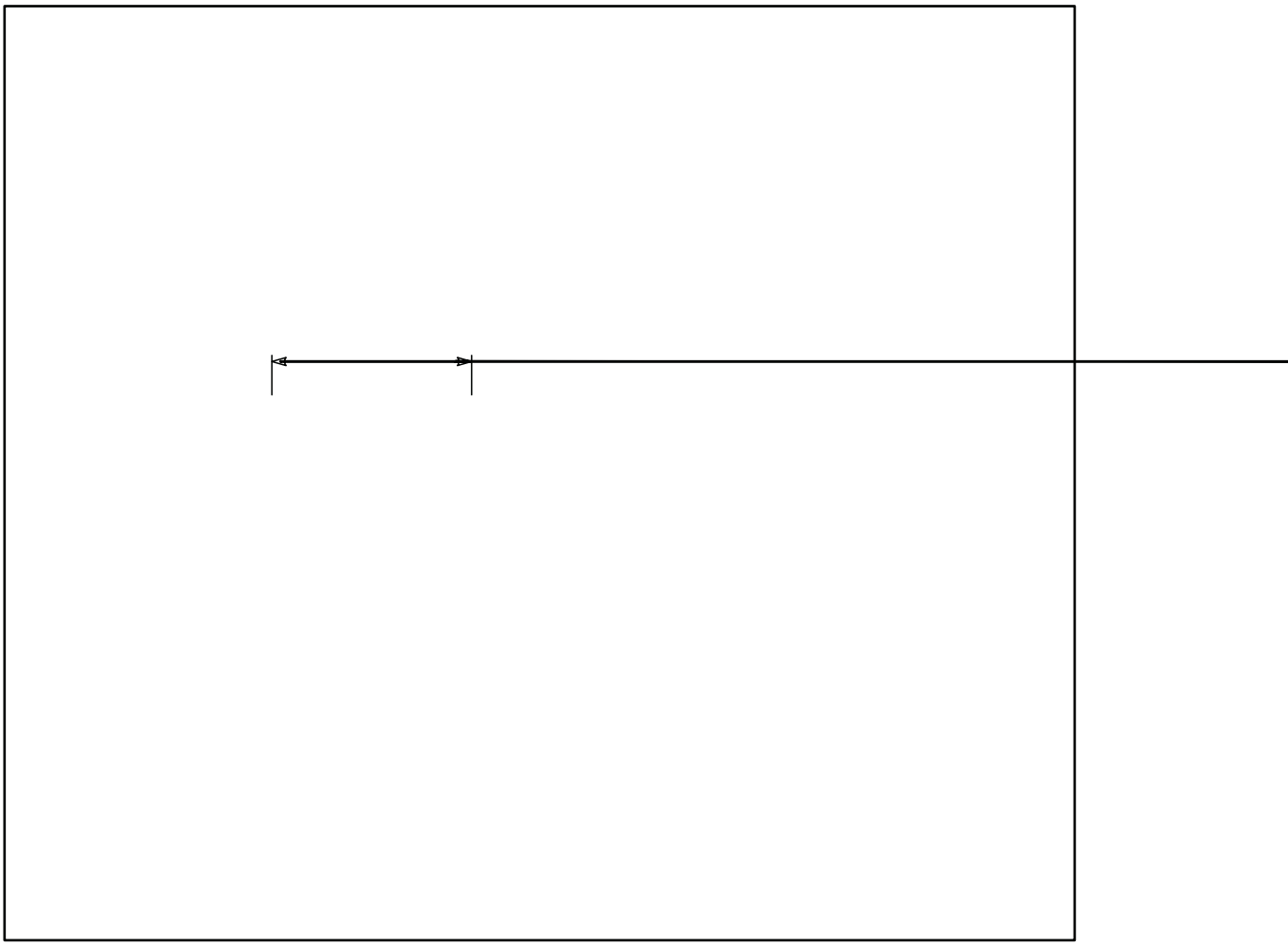
( ) Measured with I_F = 0.5 A, I_R = A, I_{rr} = 0.25 A.

(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	

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