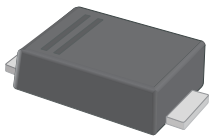
Rectifier Diodes

S2AF ~S2MF

SOD-123FL



Top View

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

■ Features

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Forward Voltage @ I_F=2A	V_F	1.1							
Averaged Forward Current.Ta=65℃	I_{FAV}	2							A
Peak Forward Surge Current @ 8.3ms	I_{FSM}	60							
Maximum DC Reverse Current Ta=25℃	I_R	5							μA
Ta=125℃		50							
Typical Junction Capacitance (Note.1)	Cj	30							pF
Typical Thermal Resistance	$R_{\theta JA}$	50							℃/W
Junction Temperature	Tj	150							℃
Storage Temperature	Tstg	-55 to 150							

Note.1: Measured at 1MHz and applied reverse voltage of 4V D.C

■ Marking

NO.	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF
Marking	2A1	2A2	2A3	2A4	2A5	2A6	2A7

Rectifier Diodes

S2AF ~S2MF

■ Typical Characterisitics

Fig.1 Forward Current Derating Curve

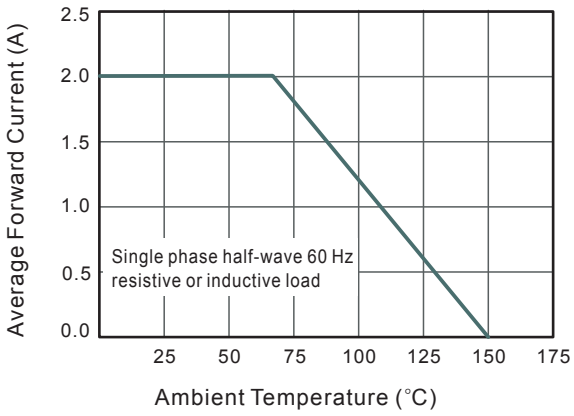


Fig.2 Typical Instaneous Reverse Characteristics

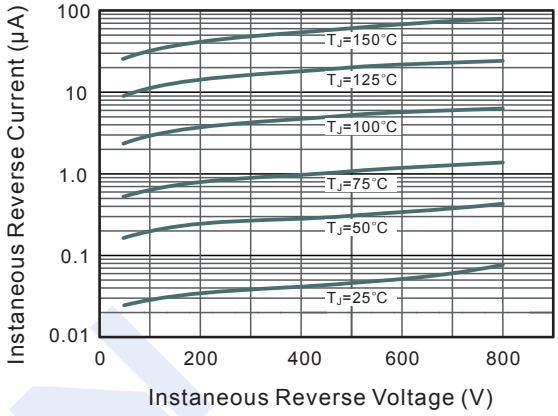


Fig.3 Typical Forward Characteristic

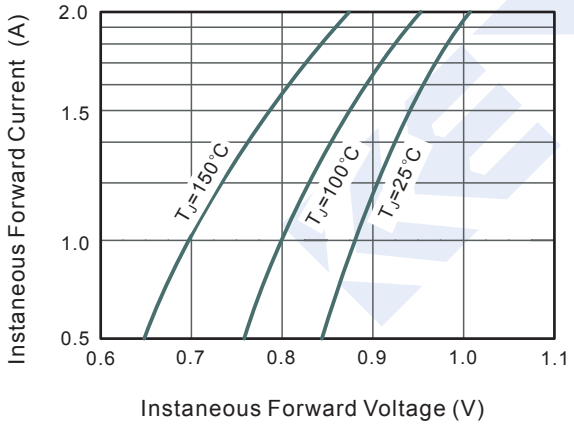
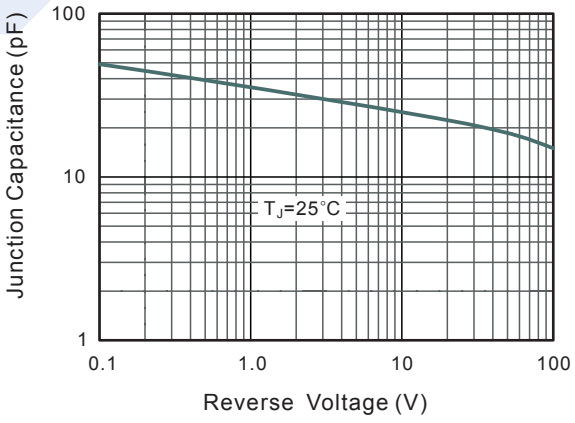
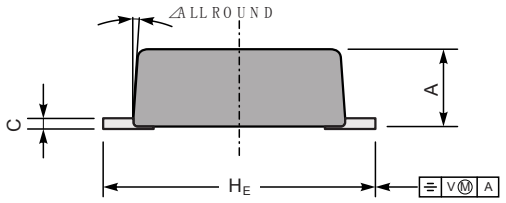


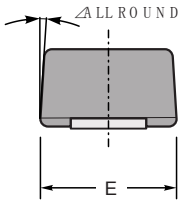
Fig.4 Typical Junction Capacitance

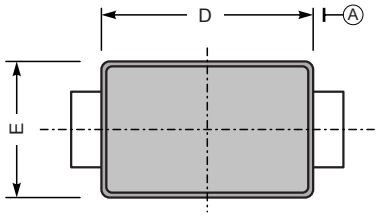


PACKAGE OUTLINE

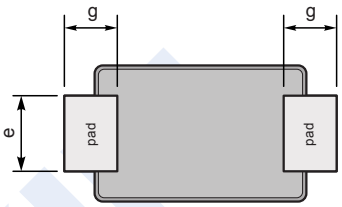
Plastic surface mounted package; 2 leads SOD-123FL







Top View



Bottom View

UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size