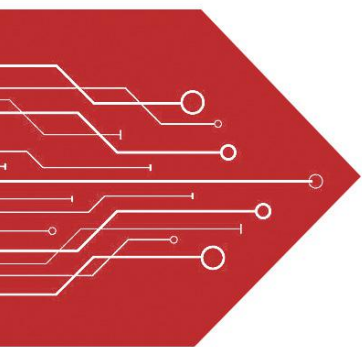


MSKSEMI

SEMICONDUCTOR



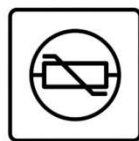
ESD



TVS



TSS



MOV

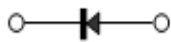


GDT



PLED

Product data sheet


SOD-123FL

Applications

General rectification

Features

- Small power mold type. (PMDU)
- Low I_R .
- High reliability

Construction

Silicon epitaxial planer

Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

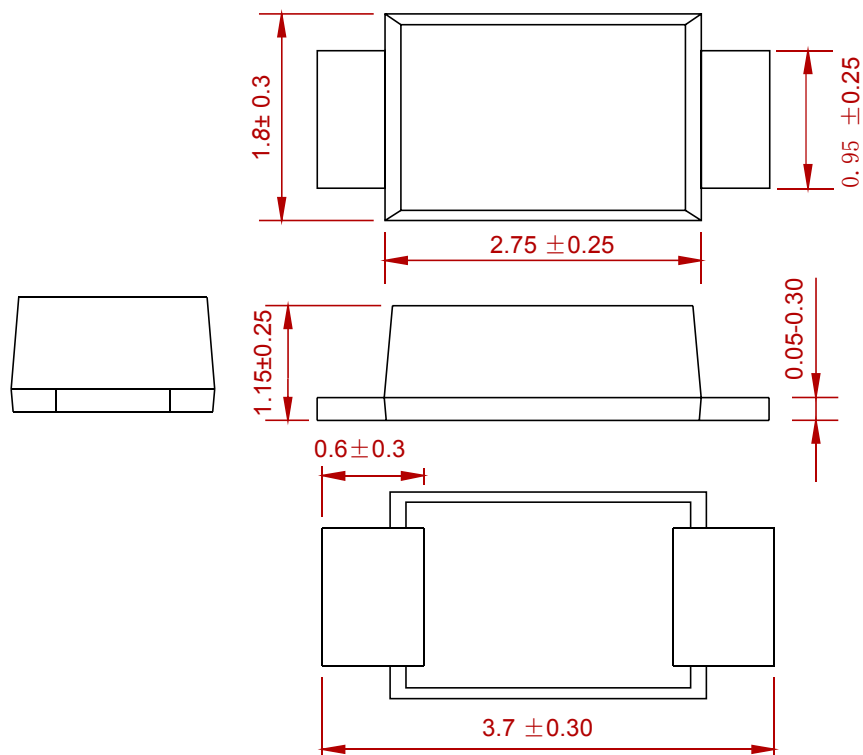
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	30	A
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^{\circ}\text{C}$

(*1) Mounted on epoxy board. 180° Half sine wave

Electrical characteristic ($T_a=25^{\circ}\text{C}$)

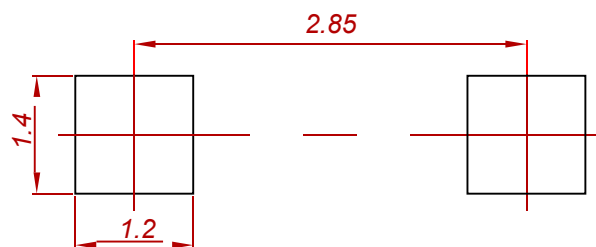
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.39	0.46	V	$I_F=0.5\text{A}$
	V_{F2}	-	0.43	0.48	V	$I_F=1.0\text{A}$
Reverse current	I_{R1}	-	3.0	20	μA	$V_R=15\text{V}$
	I_{R2}	-	9.0	50	μA	$V_R=30\text{V}$

PACKAGE MECHANICAL DATA



Dimensions in millimeters

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05mm.
3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
RB160M-30	SOD-123FL	3000

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