2.0Amp 30V Surface Mounted Schottky Barrier Diode

FEATURES：

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- High forward surge current capability
- AEC-Q101
- RoHS compliant.

SOD-123FL

MECHANICAL DATA：

- Case：Molded plastic body
- Terminals：Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity：Polarity symbol marking on body

MAXIMUM RATINGS (Ratings at 25 ℃ ambient temperature unless otherwise specified)

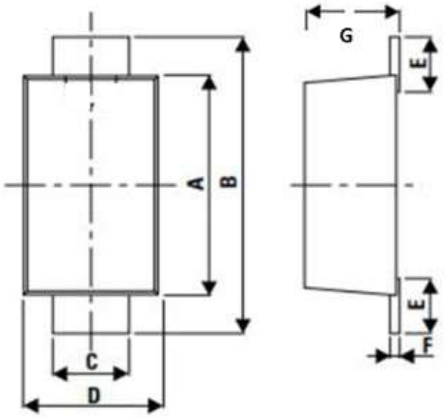
Characteristic	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	30	V
Maximum RMS voltage	V_{RMS}	21	V
Maximum DC blocking voltage	V_{DC}	30	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Nonrepetitive Peak Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	45	A
Operating Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{STG}	-40~+150	℃

Electrical Characteristics (Ratings at 25 ℃ ambient temperature unless otherwise specified)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage I_R=100uA	V_{BR}	30			V
Forward voltage IF = 1A IF = 2A	V_F		0.45 0.525	0.50 0.55	V

Reverse Leakage Current VR=30V	I_R			20	uA
Junction Capacity VR=4V, f=1MHz	C_J		65		pF

・Package outlines : Dimensions in millimeters



DIM	MILLIMETERS	
	MIN	MAX
A	2.50	3.10
B	3.40	4.00
C	0.70	1.20
D	1.50	2.00
E	0.35	0.90
F	0.05	0.26
G	0.95	1.30

Notice

MOSPEC reserves the rights to make changes of the content herein the document anytime without notification. MOSPEC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Please refer to MOSPEC website for the last document.

MOSPEC disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially incurred.

Application shown on the herein document are examples of standard use and operation. Customers are responsible for comprehending suitable use in particular applications. MOSPEC makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by MOSPEC for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of MOSPEC or others.

These MOSPEC products are intended for usage in general electronic equipment. Please make sure to consult with MOSPEC before you use these MOSPEC products in equipment which require specialized quality and/or reliability, and in equipment which could have major impact to the welfare of human life (atomic energy control, aeronautics , traffic control, combustion control, safety devices etc.)