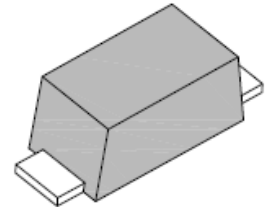


1.0A Surface Mount Schottky Rectifier

Features

- Switching power supply
- Reverse battery connection protection
- DC/DC converter
- For use in low voltage
- High frequency inverters
- RoHS compliant



SOD-123F



Mechanical Data

Case:	SOD-123F, Molded plastic body
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Cathode mark on the body
Weight:	0.0173 gram

Maximum Ratings & Electrical Characteristics *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	MFLS13	Unit	Conditions
	Marking Code	B13		
V_{RRM}	Max. Repetitive Peak Reverse Voltage	30	V	
I_{F(AV)}	Max. Forward Average Output Rectified Current	1.0	A	
I_{FSM}	Peak Forward Surge Current	22	A	Non-Repetitive 60Hz
V_F	Max. Forward Voltage	0.42	V	I _F =1.0A
I_R	Repetitive Peak Reverse Current	0.05	mA	V _R =Rated
R_{thJA}	Typical Thermal Resistance from Junction to Ambient	140	°C/W	on a glass-epoxy board
R_{thJL}	Typical Thermal Resistance from Junction to Lead	20	°C/W	
T_J	Junction Temperature	-65 to +150	°C	
T_{STG}	Storage Temperature Range	-65 to +150	°C	

1.0A Surface Mount Schottky Rectifier

MFLS13

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

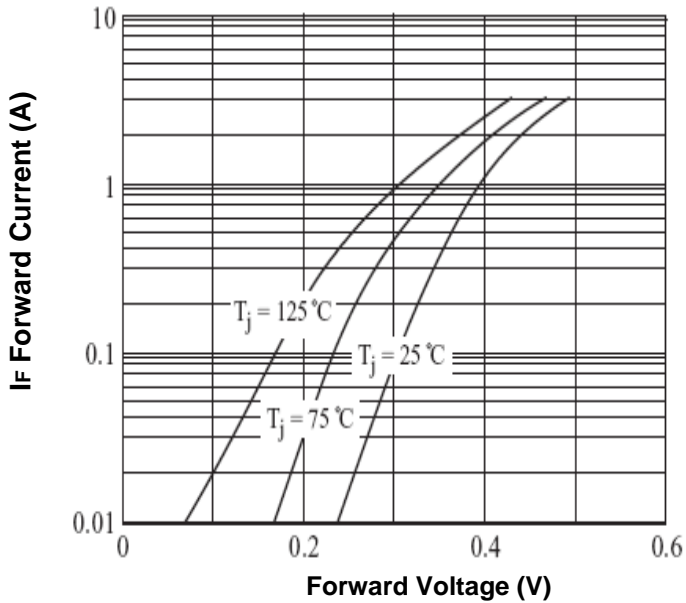


Fig.2- $P_{F(AV)} - I_{F(AV)}$

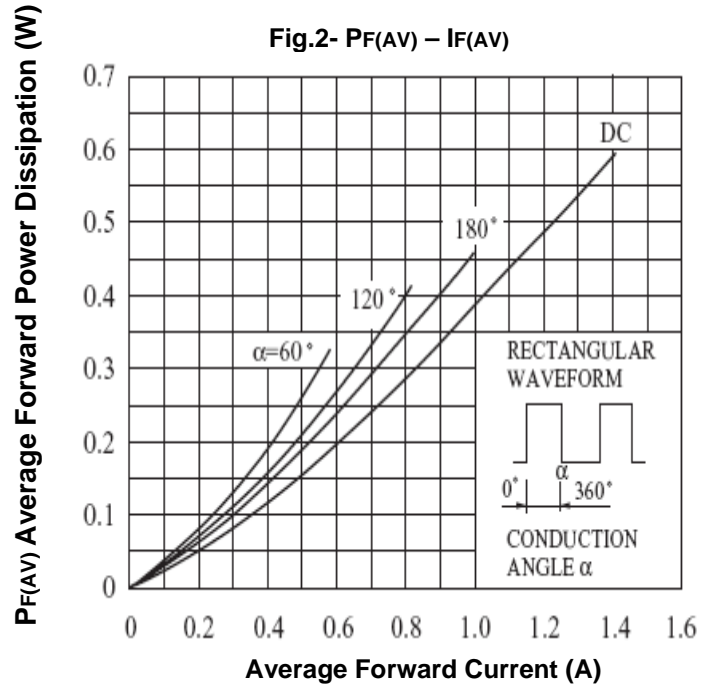


Fig.3- Surge Forward Current (Non-Repetitive)

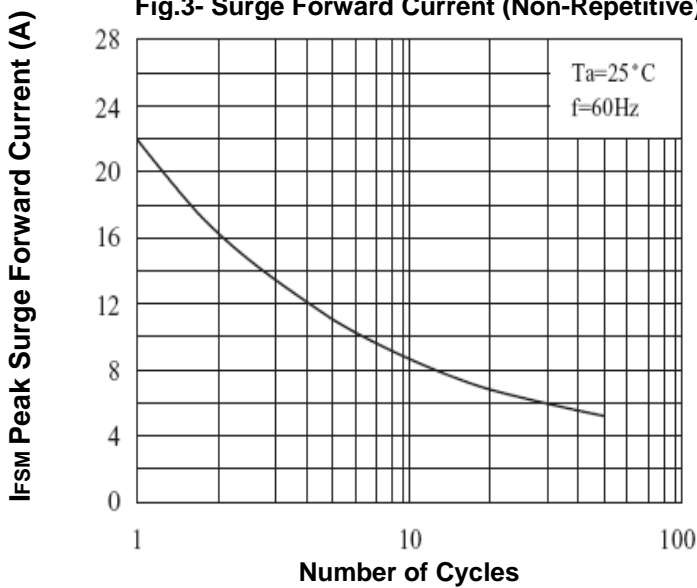
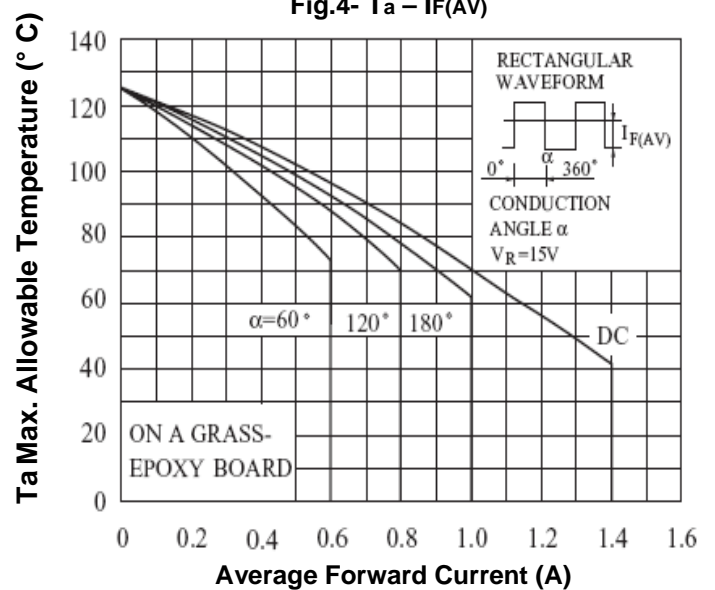


Fig.4- $T_a - I_{F(AV)}$



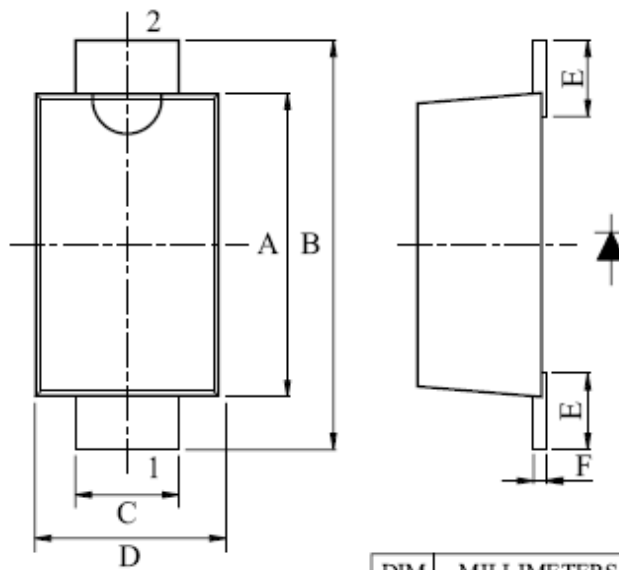
1.0A Surface Mount Schottky Rectifier

MFLS13

Marking Information:



Dimensions in mm



DIM	MILLIMETERS
A	2.6±0.05
B	3.5±0.1
C	0.9±0.05
D	1.6±0.05
E	0.65±0.05
F	0.11±0.05
G	0 ~ 0.1
H	0.98±0.05

1. ANODE
2. CATHODE

SOD-123F

1.0A Surface Mount Schottky Rectifier

MFLS13

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