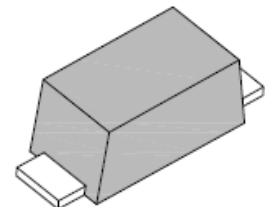


1.0A Surface Mount Schottky Rectifier

Features

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



SMF



Mechanical Data

Case:	SMF, 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 ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	TSMF14	Unit	Conditions
	Marking Code	B14		
V_{RRM}	Max. Repetitive Peak Reverse Voltage	40	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	0.5	V	I _F =1.0A
I_R	Repetitive Peak Reverse Current	1.0	mA	V _R =Rated
R_{thJA}	Typical Thermal Resistance from Junction to Ambient	140	° C/W	on a grass-epoxy board
R_{thJL}	Typical Thermal Resistance from Junction to Lead	20	° C/W	
T_J	Junction Temperature	125	° C	
T_{STG}	Storage Temperature Range	-40 to +125	° C	

1.0A Surface Mount Schottky Rectifier

TSMF14

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

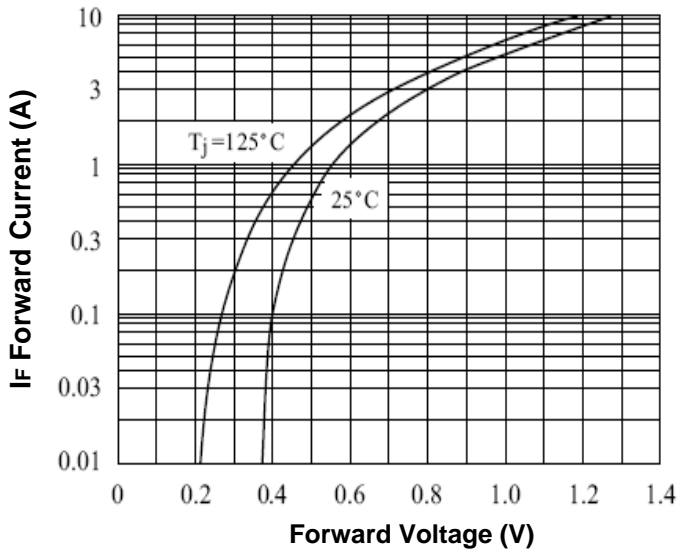


Fig.2- $P_{F(AV)} - I_{F(AV)}$

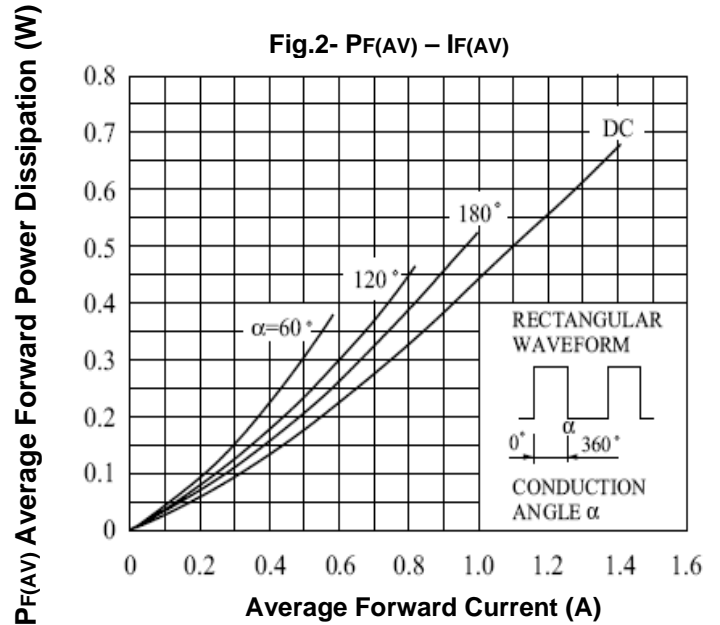


Fig.3- Surge Forward Current (Non-Repetitive)

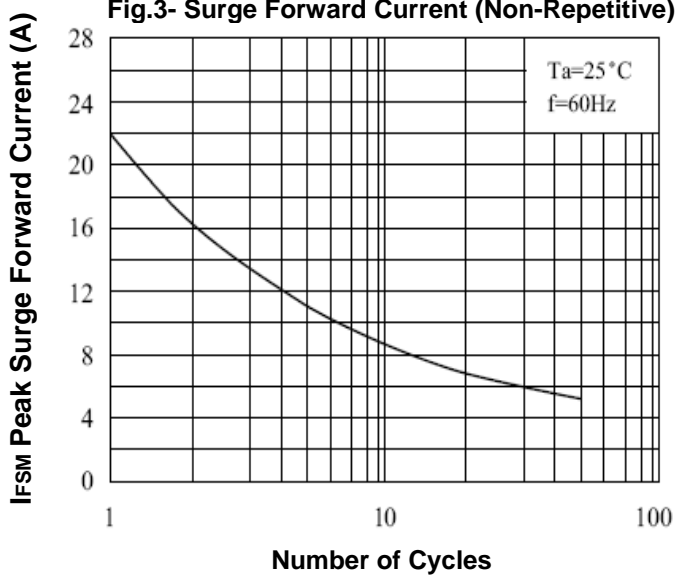
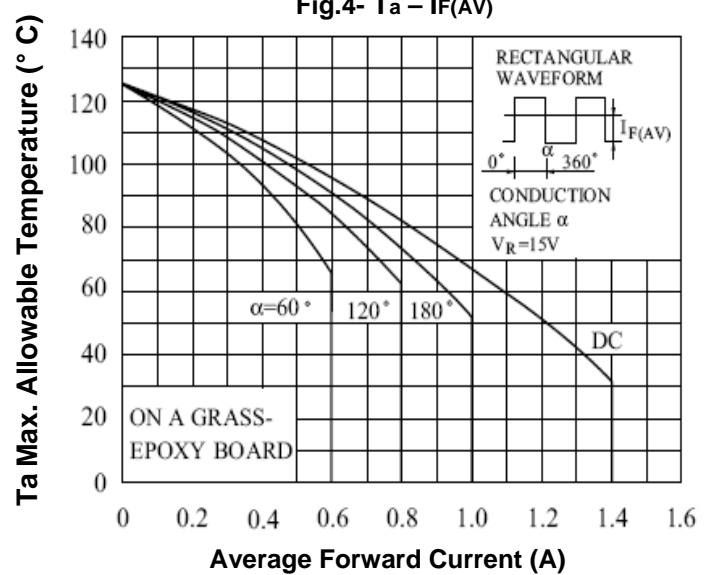


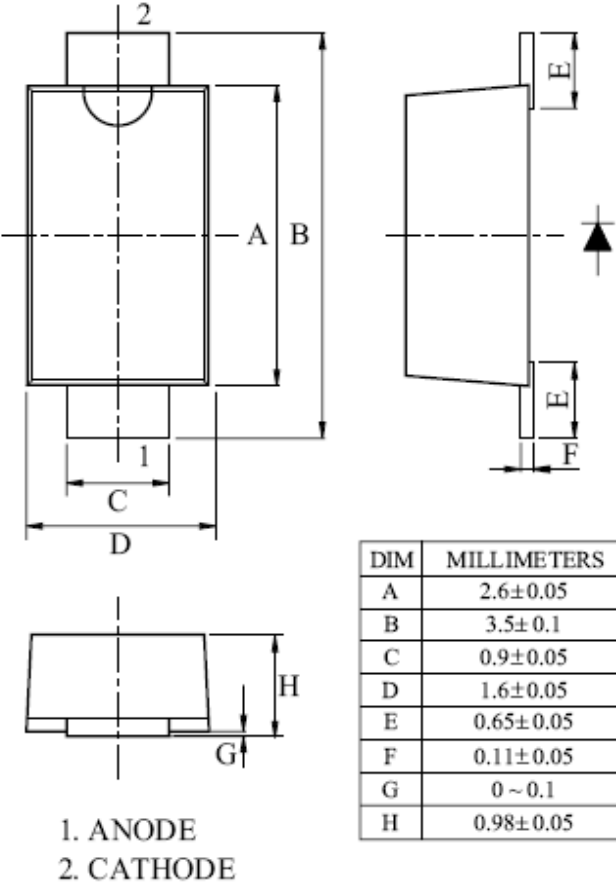
Fig.4- $T_a - I_{F(AV)}$



1.0A Surface Mount Schottky Rectifier

TSMF14

Dimensions in mm



SMF

1.0A Surface Mount Schottky Rectifier

TSMF14

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