



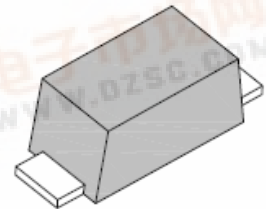
1.0A Surface Mount Schottky Rectifier

TSMF14

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		
VRRM	Max. Repetitive Peak Reverse Voltage	40	V	
IF(AV)	Max. Forward Average Output Rectified Current	1.0	A	
IFSM	Peak Forward Surge Current	22	A	Non-Repetitive 60Hz
VF	Max. Forward Voltage	0.5	V	IF=1.0A
IR	Repetitive Peak Reverse Current	1.0	mA	VR=Rated
RthJA	Typical Thermal Resistance from Junction to Ambient	140	$^{\circ}C/W$	on a glass-epoxy board
RthJL	Typical Thermal Resistance from Junction to Lead	20	$^{\circ}C/W$	
TJ	Junction Temperature	125	$^{\circ}C$	
TSTG	Storage Temperature Range	-40 to +125	$^{\circ}C$	



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Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

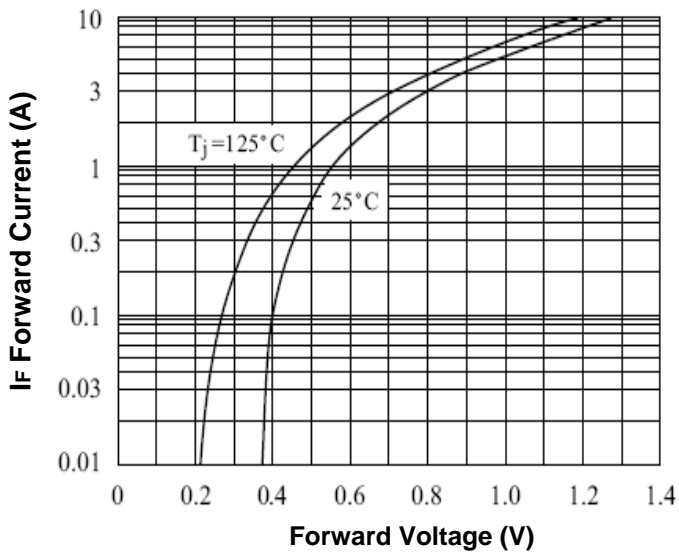


Fig.2- PF(AV) – IF(AV)

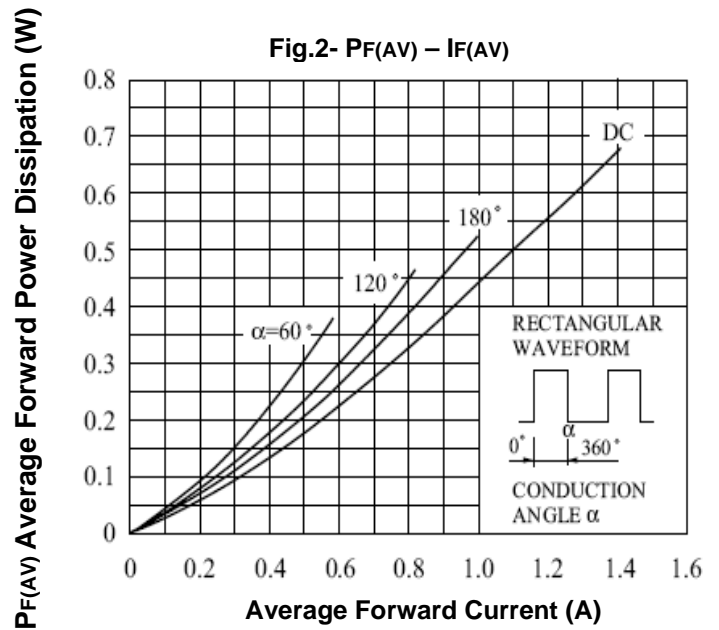


Fig.3- Surge Forward Current (Non-Repetitive)

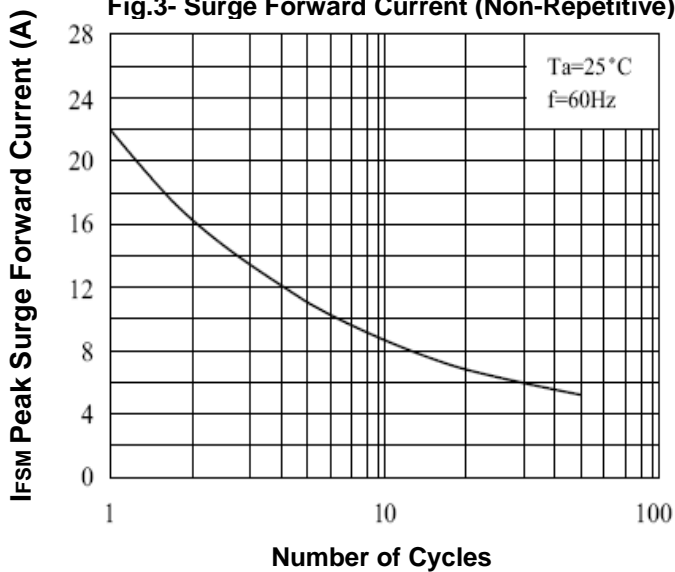
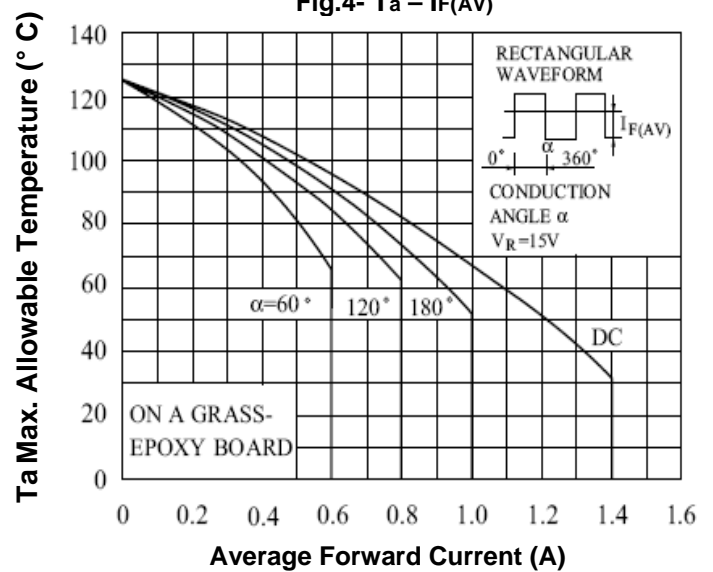


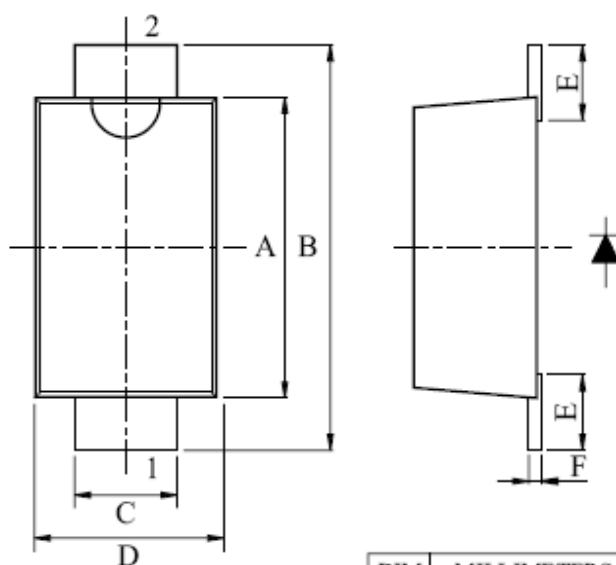
Fig.4- Ta – IF(AV)



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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

SMF

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