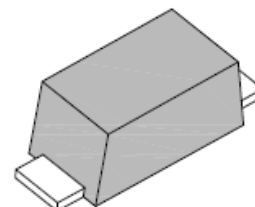


1.0A Surface Mount Schottky Rectifier

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	$^{\circ}C/W$	on a glass-epoxy board
R_{thJL}	Typical Thermal Resistance from Junction to Lead	20	$^{\circ}C/W$	
T_J	Junction Temperature	125	$^{\circ}C$	
T_{STG}	Storage Temperature Range	-40 to +125	$^{\circ}C$	

1.0A Surface Mount Schottky Rectifier

TSMF14

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

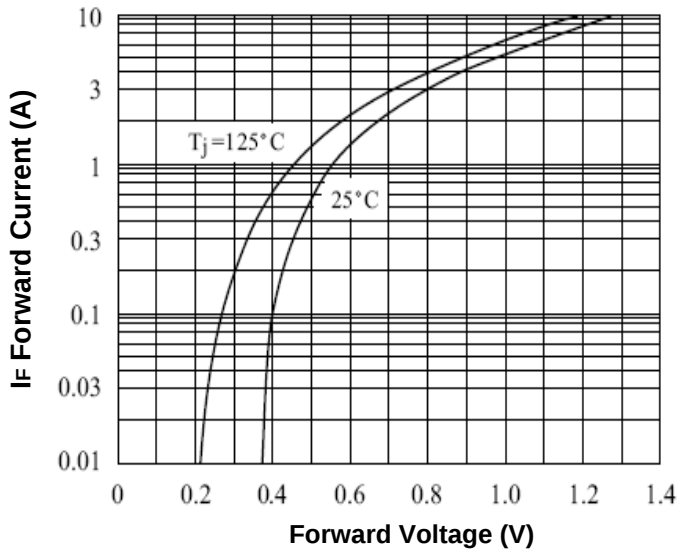


Fig.2- $P_F(\text{AV}) - I_F(\text{AV})$

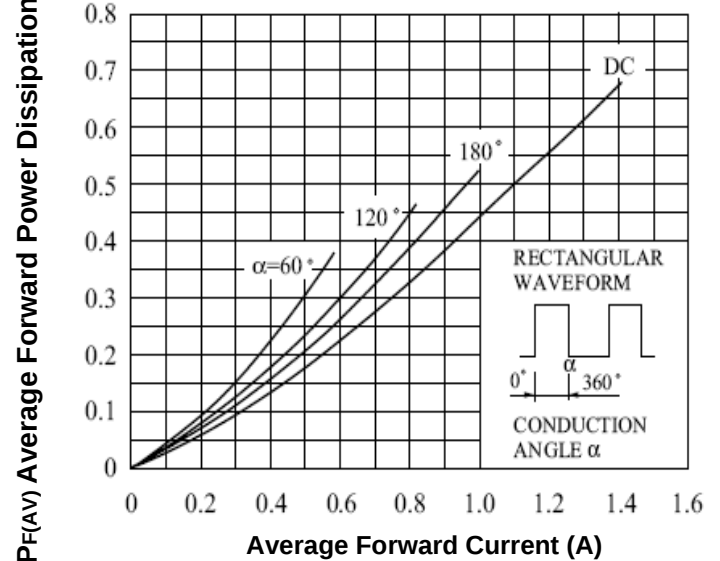


Fig.3- Surge Forward Current (Non-Repetitive)

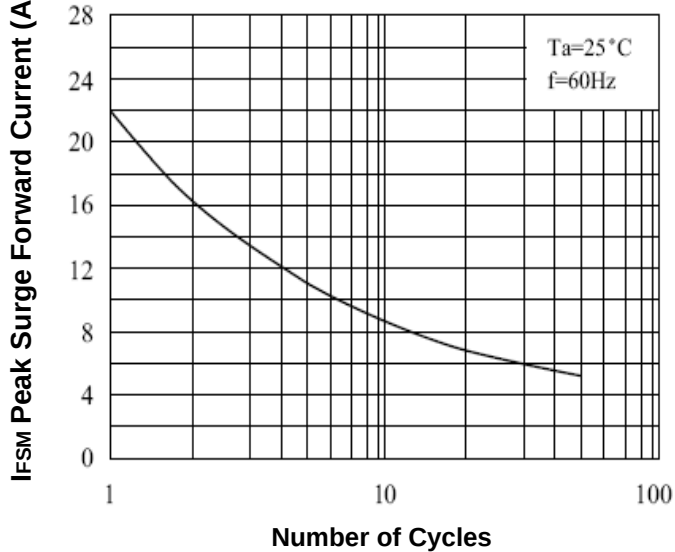
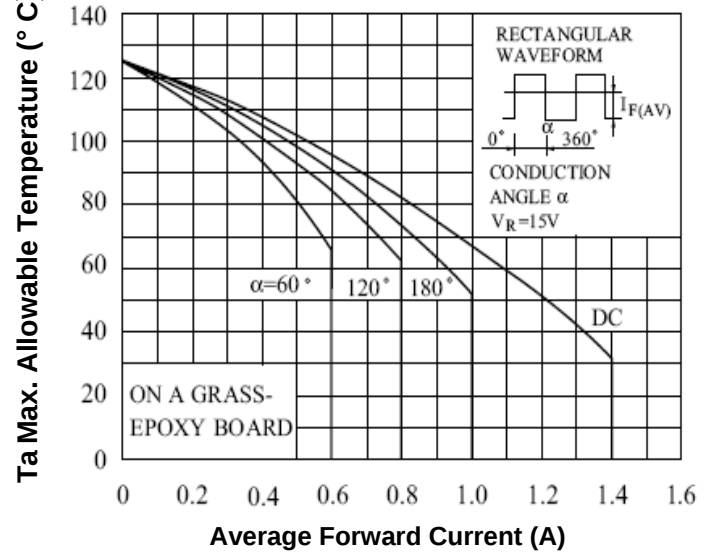


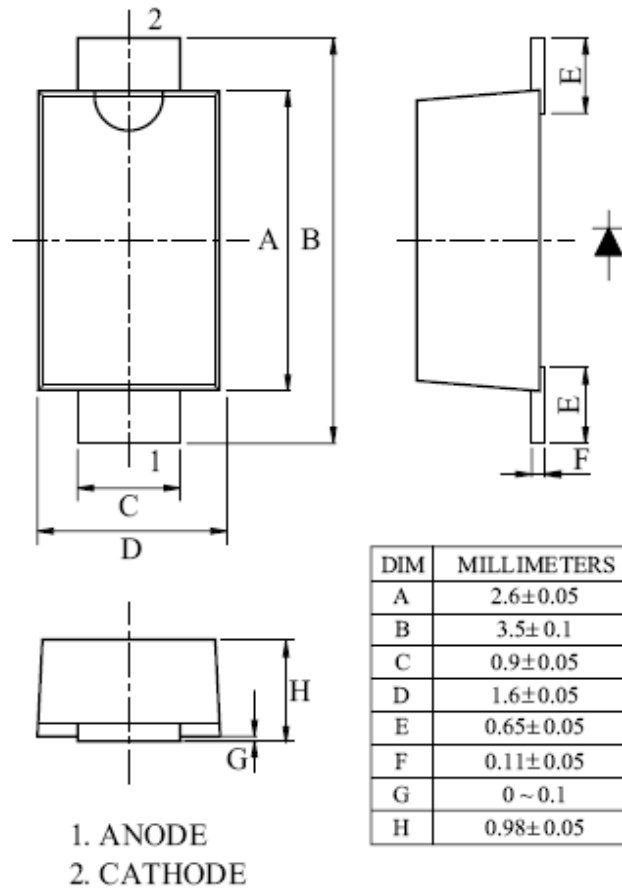
Fig.4- $T_a - I_F(\text{AV})$



1.0A Surface Mount Schottky Rectifier

TSMF14

Dimensions in mm



SMF

1.0A Surface Mount Schottky Rectifier

TSMF14

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931