# TSPSAF
# TSPSBF

11-NOV-201

## Trench MOS Barrier Schottky Re

### Features
- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish RoHS Compliant

### Applications
- DC DC Converters
- AC DC Adaptors

## Maximum ratings and electrical characteristics  (TJ = 25°C unless otherwise noted)

| Parameter | | | Symbol | Limit | | Unit |
|---|---|---|---|---|---|---|
| Maximum repetitive peak reverse voltage | | | VRRM | | | V |
| Maximum average forward rectified current | | | IF(AV) | | | A |
| Peak forward surge current single sine-wave superimposed on rated load | | | IFSM | | | A |
| Operating junction and storage temperature range | | | TJ, TSTG | to | | °C |
| Typical thermal resistance Mounted on PCB | | | RθJL | | | °C/W |
| Instantaneous forward voltage | | | VF | TYP | MAX | |
| | IF= A | TJ= °C | | | | |
| | IF= A | TJ= °C | | | | |
| Instantaneous reverse current at rated reverse voltage | TJ= °C | | IR | | | μA |
| | TJ= °C | | | | | mA |

### Notes
- Pulse test: pulse width, duty cycle
- Pulse width, ms

## RATINGS AND CHARACTERISTICS CURVES
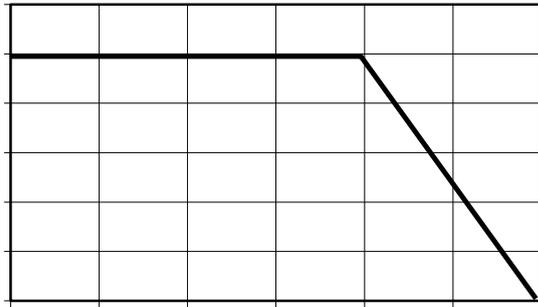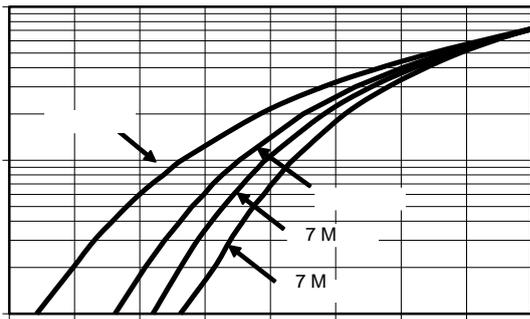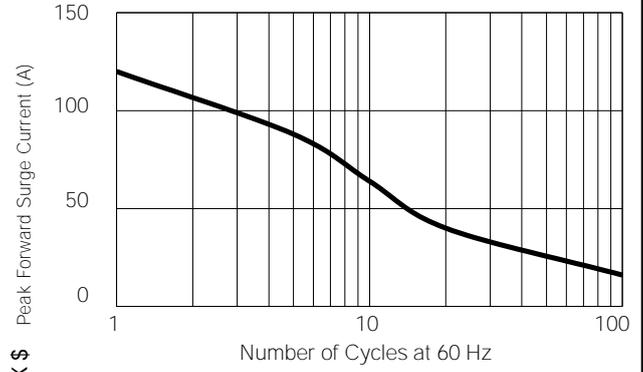
Peak Forward Surge Current (A)

150

100

50

0

1          10          100

Number of Cycles at 60 Hz

100000

1000

10

0          1          10          100
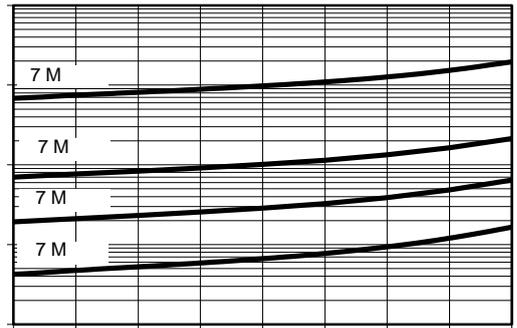
Reverse Voltage (V)
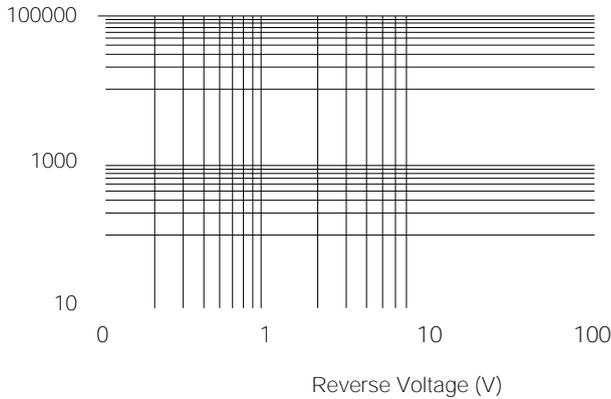
**PACKAGE OUTLINE**

SMBF
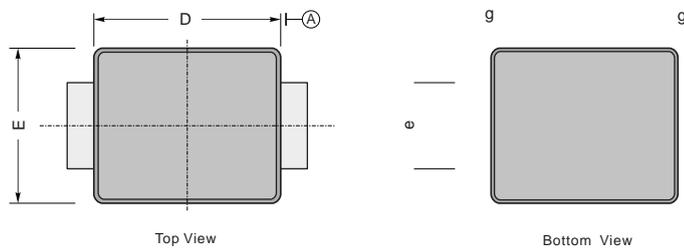
| | Top View | | Bottom View | | | | |

| UNIT | | A | C | D | E | $H_E$ | e | g | |
|------|-----|-----|------|-----|-----|-----|-----|-----|-----|
| mm | max | 1.3 | 0.26 | 4.4 | 3.7 | 5.5 | 2.2 | 1.0 | 9° |
| | min | 1.1 | 0.18 | 4.2 | 3.5 | 5.1 | 1.9 | | |
| mil | max | | | | | | | | |
| | min | | | | | | | | |