

### Surface Mount Schottky Barrier Rectifier

#### Features

- Low Profile in SMA Package
- Low power loss, high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications



SMA



#### Mechanical Data

<b>Case:</b>	SMA Package, Molded plastic body
<b>Terminals:</b>	Solder plated, solderable per MIL-STD-750, Method 2026
<b>Polarity</b>	Color band denotes the cathode end

#### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	SS22A	SS23A	SS24A	SS25A	SS26A	Unit
<b>VRMS</b>	Maximum RMS voltage	14	21	28	35	42	V
<b>VRRM</b>	Maximum repetitive peak reverse voltage	20	30	40	50	60	V
<b>VDC</b>	Maximum DC blocking voltage	20	30	40	50	60	V
<b>I(AV)</b>	Maximum average forward rectified current at Tl (SEE FIG.1)	2.0					A
<b>IFSM</b>	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	50.0					A
<b>RθJA</b> <b>RθJL</b>	Maximum thermal resistance (NOTE 2)	75 17					° C/W
<b>TJ</b>	Operating junction temperature range	-65 to +125			-65 to +150		° C
<b>TSTG</b>	Storage Temperature Range	-65 to +150					° C

#### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	SS22A	SS23A	SS24A	SS25A	SS26A	Unit
<b>VF</b>	Maximum instantaneous forward voltage at 2.0A (NOTE 1)	0.50			0.70		V
<b>IR</b>	Maximum DC reverse current (NOTE 1) $T_A = 25^{\circ}C$ at rated DC blocking voltage $T_A = 100^{\circ}C$	0.4 10.0					mA

- NOTES:** (1) Pulse test: 300us pulse width, 1% duty cycle  
 (2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

# Surface Mount Schottky Barrier Rectifier

## SS22A - SS26A

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

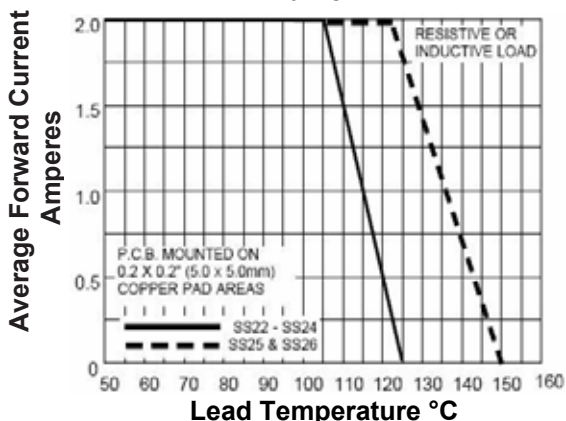


Fig.2- Maximum Non-repetitive Peak Forward Surge Current

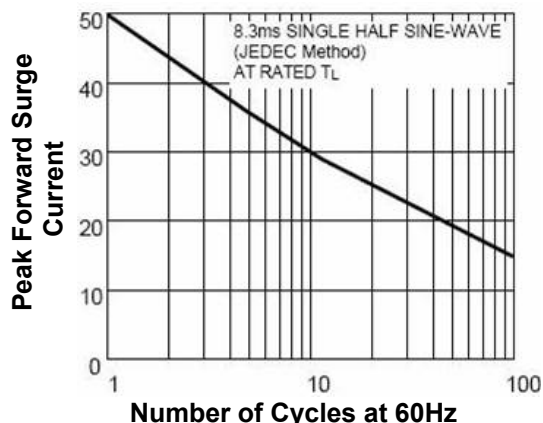


Fig.3- Typical Instantaneous Forward Characteristics

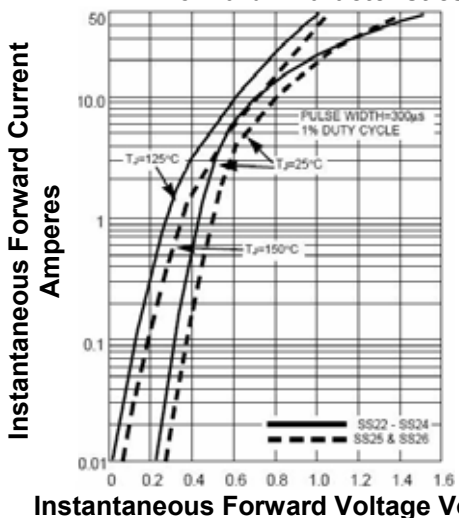


Fig.4- Typical Reverse Current Characteristics

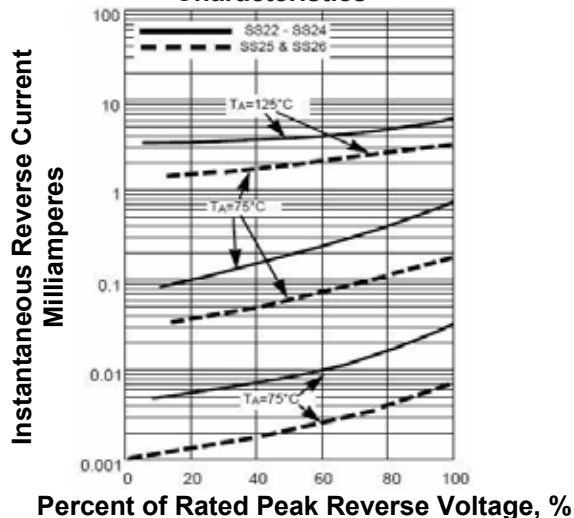
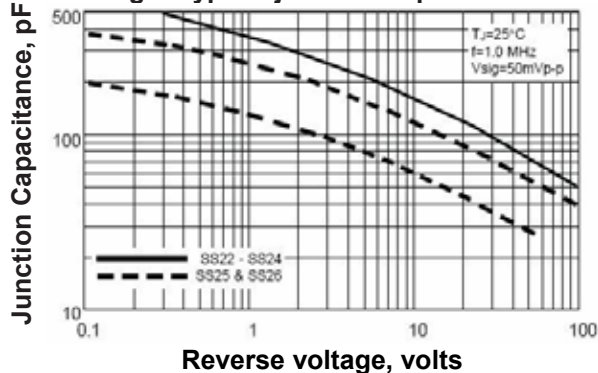


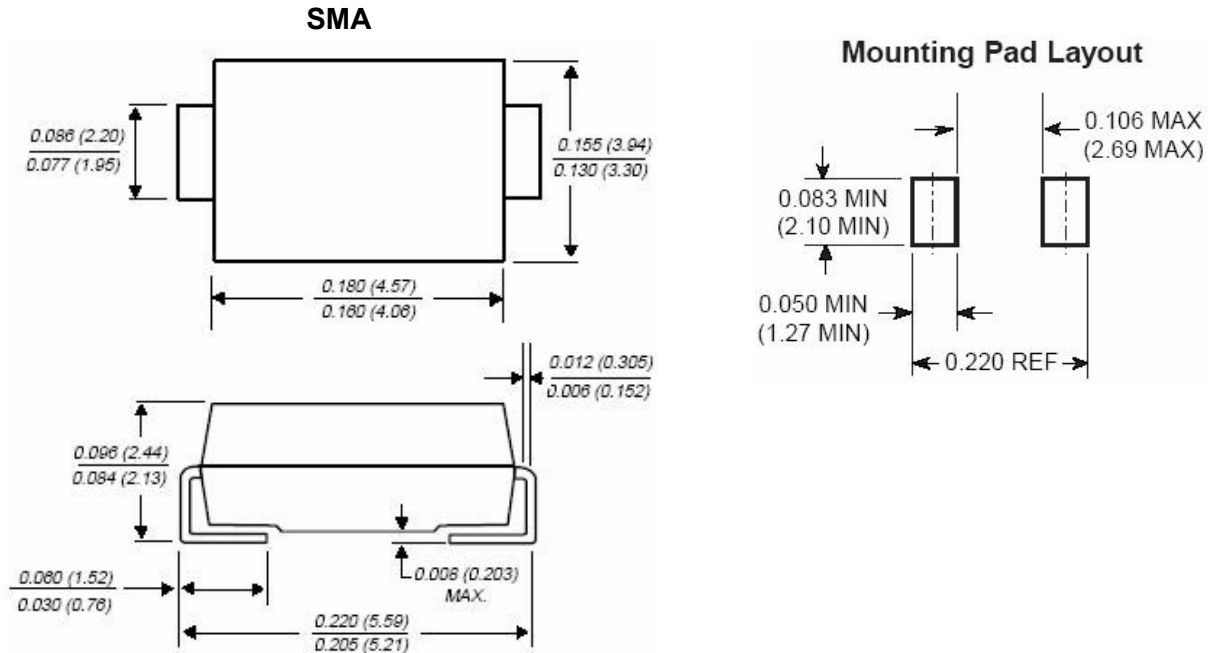
Fig.5-Typical junction capacitance



# Surface Mount Schottky Barrier Rectifier

## SS22A - SS26A

### Dimensions in inches (mm)



### How to contact us

#### US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

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

Email: [taitron@taitroncomponents.com](mailto:taitron@taitroncomponents.com)

Http://[www.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

CROSS REGION PLAZA, 899 LINLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931