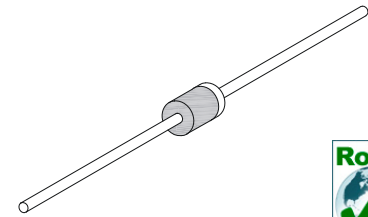


## 2.0 A Schottky Barrier Rectifiers

### Features

- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- High temperature soldering guaranteed:  
260° C/10 seconds, .0375" (9.5mm) lead length
- RoHS compliant



DO-15



### Mechanical Data

<b>Case:</b>	DO-15, Molded Plastic
<b>Epoxy:</b>	UL 94V-0 Rate Flame Retardant
<b>Polarity:</b>	Color Band Denotes Cathode End
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202E, Method 208 Guaranteed
<b>Weight:</b>	0.4 gram

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

Symbols	Description	TSR 220	TSR 230	TSR 240	TSR 250	TSR 260	TSR 290	TSR 2100	Unit
<b>VRRM</b>	Max. recurrent peak reverse voltage	20	30	40	50	60	90	100	V
<b>VRMS</b>	Max. RMS voltage	14	21	28	35	42	63	70	V
<b>VDC</b>	Max. DC blocking voltage	20	30	40	50	60	90	100	V
<b>Io(AV)</b>	Max. average forward rectified current (FIG.1)	2.0							A
<b>IFSM</b>	Peak forward surge current (Note 1)	40							A
<b>VF</b>	Max. instantaneous forward voltage at 2.0A	0.55		0.70		0.85		V	
<b>IR</b>	Max. DC reverse current at rated DC blocking voltage	TA =25°C		0.5				mA	
		TA =100°C		20.0					
<b>RθJA</b>	Typical thermal resistance, Junction to Ambient (Note2)	50							° C/W
<b>CJ</b>	Typical Junction Capacitance (Note3)	110							pF
<b>TJ</b>	Operating junction temperature range	-50 to +125							° C
<b>TSTG</b>	Storage Temperature Range	-65 to +150							° C

## 2.0 A Schottky Barrier Rectifier

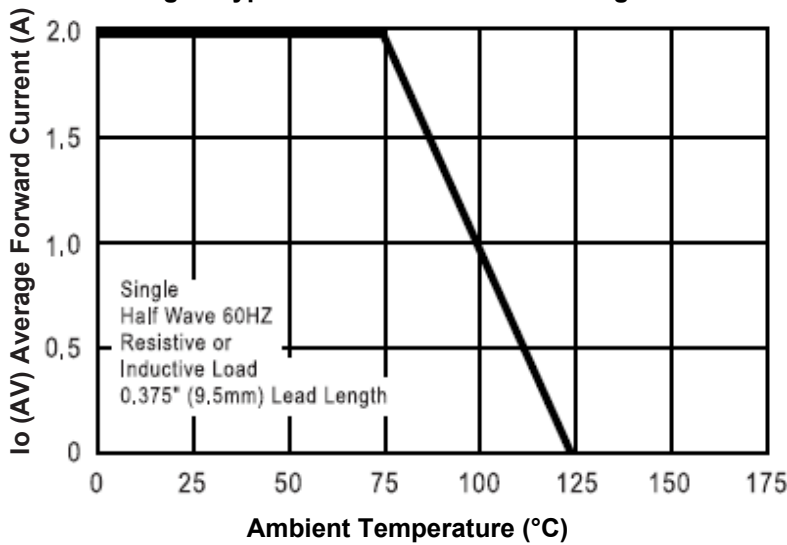
### TSR220 -TSR2100

**NOTES:**

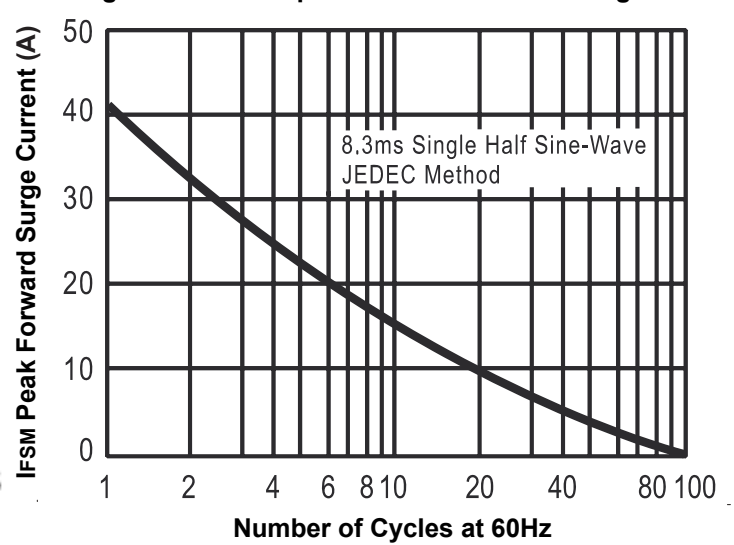
1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.
3. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.

### Typical Characteristics Curves

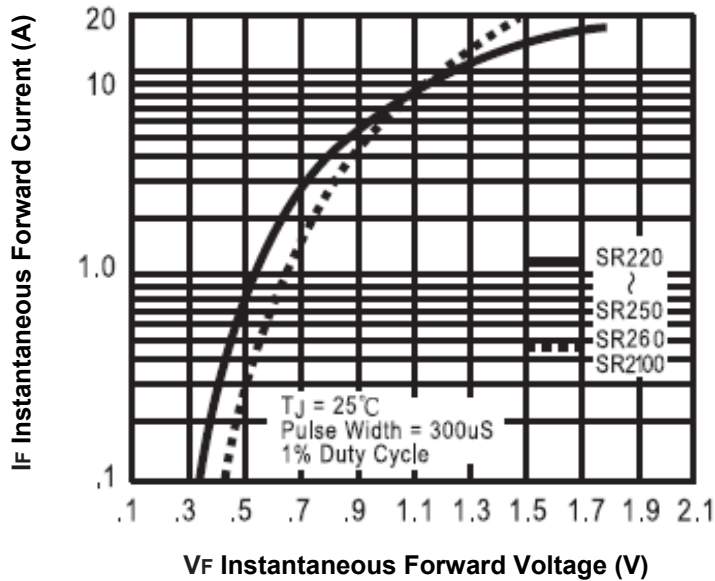
**Fig.1- Typical Forward Current Derating Curve**



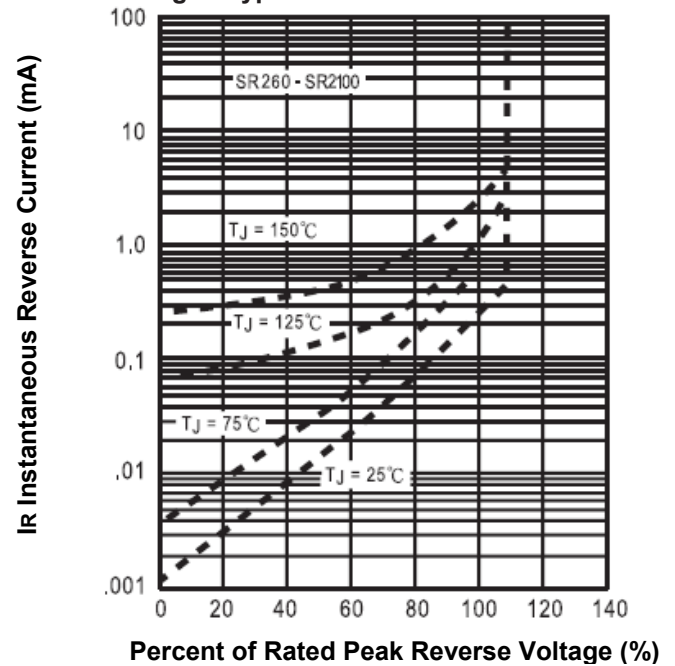
**Fig.2-Max. Non-repetitive Peak Forward Surge Current**



**Fig.3- Typical Instantaneous Forward Characteristics**



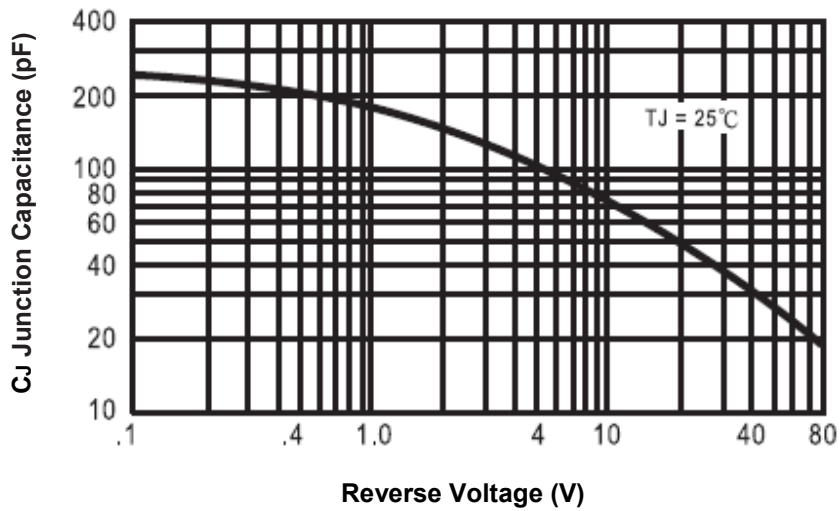
**Fig.4- Typical Reverse Characteristics**



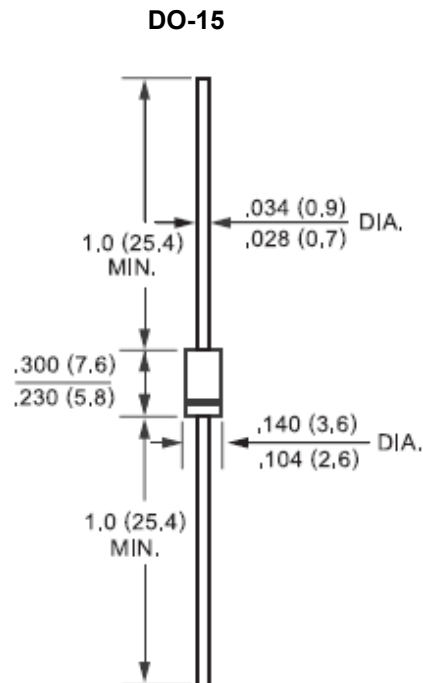
## 2.0 A Schottky Barrier Rectifier

### TSR220 -TSR2100

Fig.5-Typical junction capacitance



### Dimensions in inches (mm)



## 2.0 A Schottky Barrier Rectifier

---

TSR220 -TSR2100

### 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](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