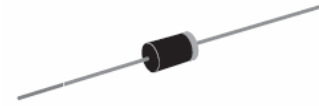


## 2A Schottky Barrier Rectifiers

### Features

- Very small conduction losses
- Extremely fast switching
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- High temperature soldering guaranteed: 260° C/10 seconds, / .0375" (9.5mm) lead length
- RoHS Compliant



DO-15



### Mechanical Data

<b>Case:</b>	JEDEC DO-15, Molded Plastic
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202E, Method 208C
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.015 ounces, 0.4 grams

### Maximum Ratings & Electrical Characteristics *(T<sub>amb</sub> = 25°C unless otherwise specified)*

Symbol	Description	TSR220	TSR230	TSR240	TSR250	TSR260	Unit	Conditions
<b>V<sub>RRM</sub></b>	Max. Repetitive Peak Reverse Voltage	20	30	40	50	60	V	
<b>V<sub>RMS</sub></b>	Max. RMS Voltage	14	21	28	35	42	V	
<b>V<sub>DC</sub></b>	Max. DC Blocking Voltage	20	30	40	50	60	V	
<b>I<sub>F(AV)</sub></b>	Average Forward Rectified Current	2.0					A	at 0.375" (9.5mm) lead length (See Fig.1)
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	60					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>V<sub>F</sub></b>	Max. Instantaneous Forward Voltage	0.50			0.68		V	I <sub>F</sub> =2A (Note 1)
<b>I<sub>R</sub></b>	Max. DC Reverse Current at Rated DC Blocking Voltage	0.5					mA	T <sub>A</sub> =25 °C (Note 1)
		15			8			T <sub>A</sub> =100 °C (Note 1)

# 2A Schottky Barrier Rectifiers

## TSR220 - TSR260

Symbol	Description	TSR220	TSR230	TSR240	TSR250	TSR260	Unit	Conditions
<b>C<sub>J</sub></b>	Typical Junction Capacitance	170					pF	
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	45					°C/W	Note 2
<b>R<sub>thJL</sub></b>		14						
<b>T<sub>J</sub></b>	Operating Junction Temperature Range	-65 to +125			-65 to +150		°C	
<b>T<sub>STG</sub></b>	Storage Temperature Range	-65 to +150					°C	

**Note:** 1. Pulse test:: 300μs pulse width, 1% duty cycle.

2. Thermal resistance junction to lead P.C.B. mounted 0.375[" (9.5mm) lead length.

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

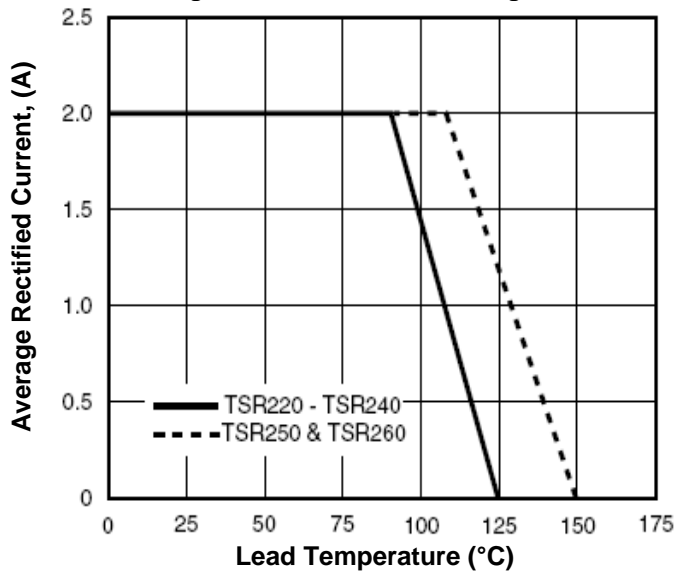
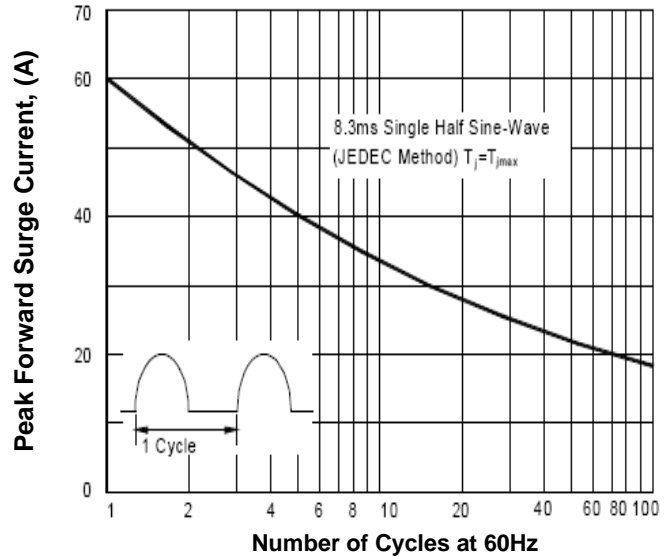


Fig.2- Max. Non-Repetitive Forward Surge Current



# 2A Schottky Barrier Rectifiers

## TSR220 - TSR260

Fig.3- Typical Instantaneous Forward Characteristics

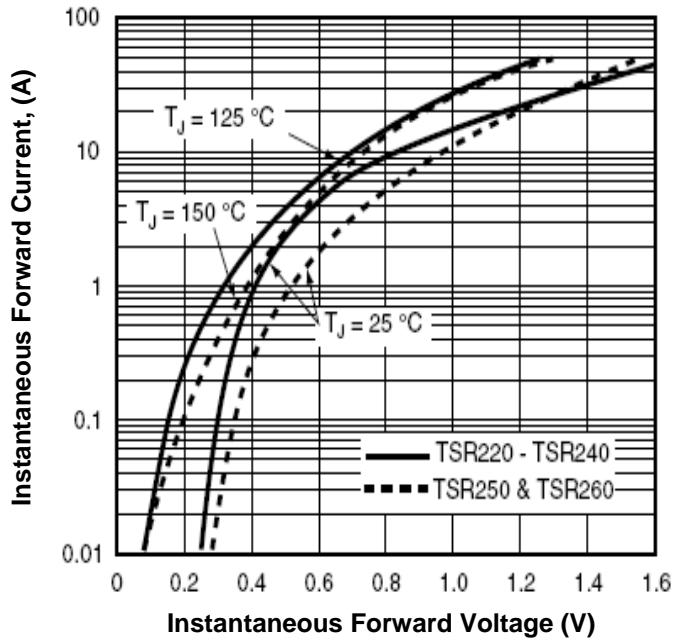


Fig.4- Typical Reverse Characteristics

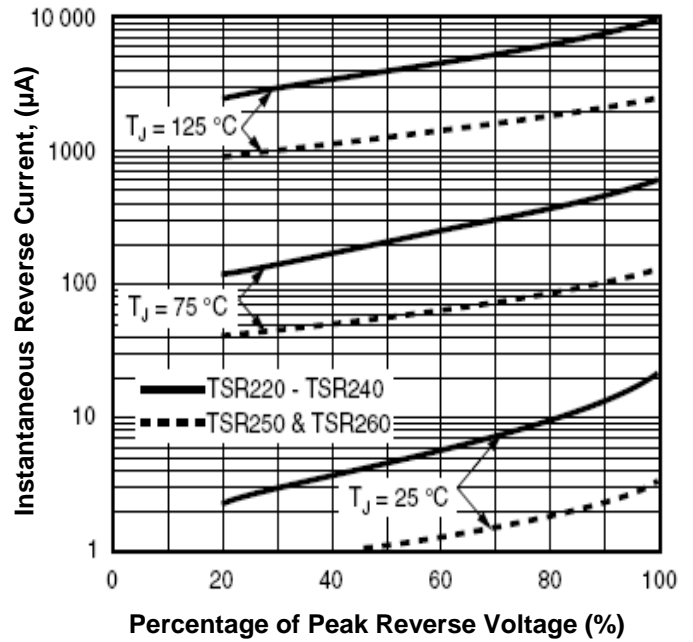
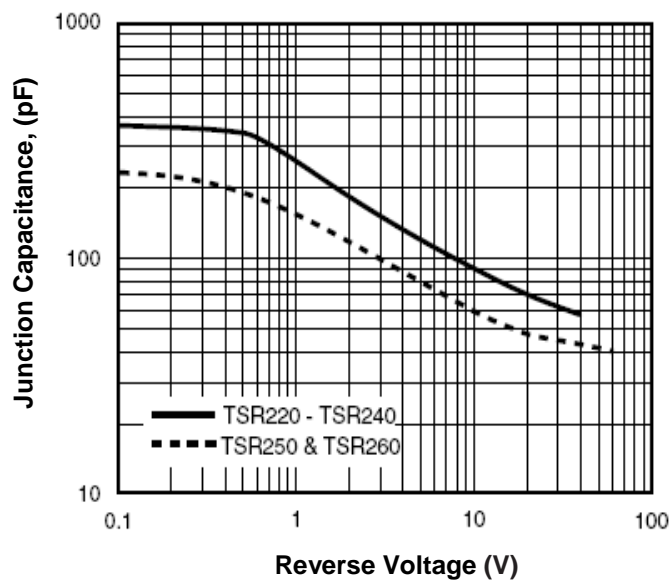


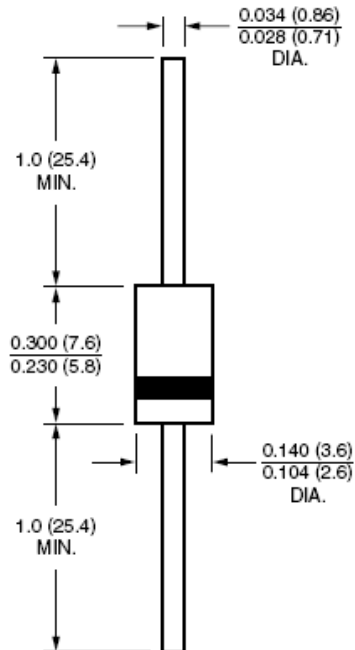
Fig.5- Typical Junction Capacitance



## 2A Schottky Barrier Rectifiers

### TSR220 - TSR260

#### Dimensions in inches (mm)



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DO-15

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