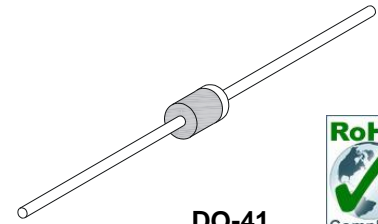


## 1.0 A Schottky Barrier Rectifiers

### Features

- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- High temperature soldering guaranteed:  
250° C/10 seconds, /.0375" (9.5mm) lead length
- RoHS compliant



DO-41



### Mechanical Data

<b>Case:</b>	DO-41, 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-202, Method 208 Guaranteed
<b>Weight:</b>	0.33 gram

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

Symbols	Description	TSR 120	TSR 130	TSR 140	TSR 150	TSR 160	TSR 190	TSR 1100	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)	1.0							A
<b>IFSM</b>	Peak forward surge current (JEDEC)	40							A
<b>VF</b>	Max. instantaneous forward voltage at 1.0A	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		10.0					
<b>RθJA</b>	Typical thermal resistance, Junction to Ambient (Note1)	50							° C/W
<b>CJ</b>	Typical Junction Capacitance @VR=4.0V, 1MHz (Note2)	110			80				pf
<b>TJ</b>	Operating junction temperature range	-50 to +125			-50 to +150				° C
<b>TSTG</b>	Storage Temperature Range	-65 to +150							° C

# 1.0 A Schottky Barrier Rectifier

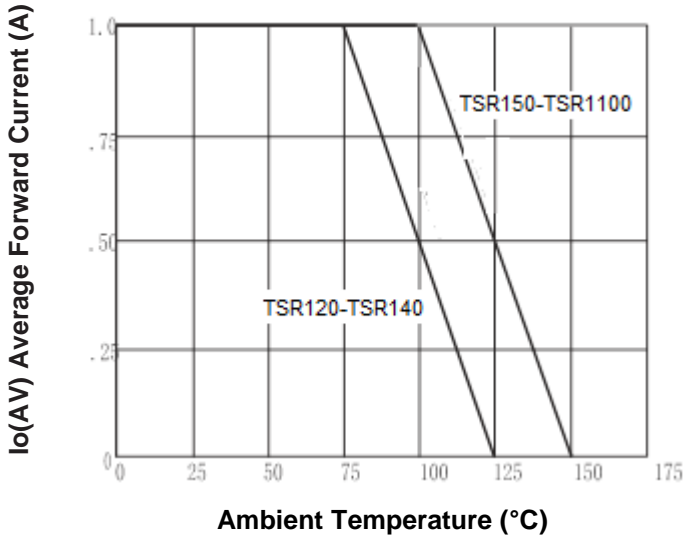
## TSR120 -TSR1100

**NOTES:**

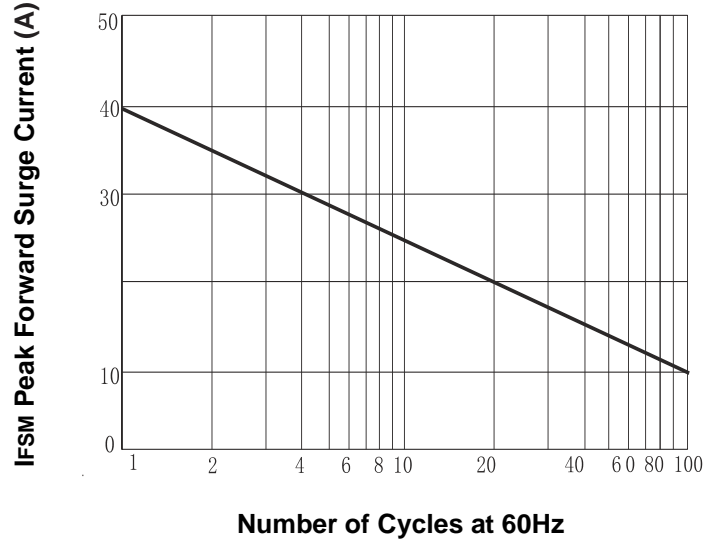
1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

### Typical Characteristics Curves

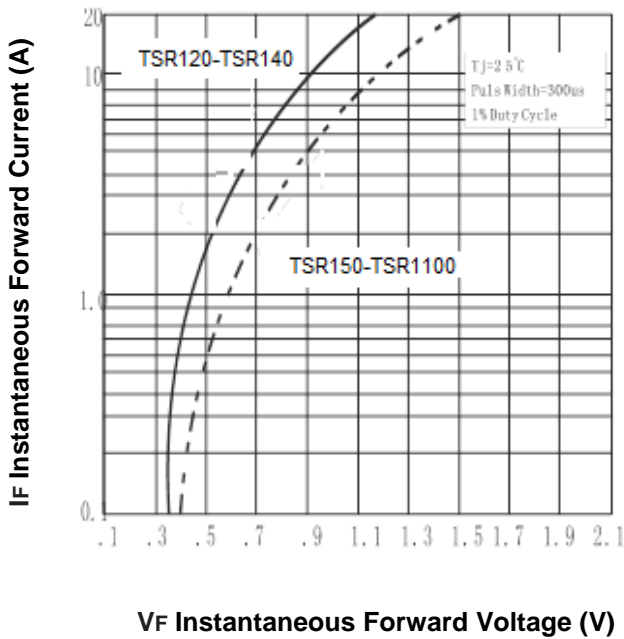
**Fig.1- Typical Forward Current Derating Curve**



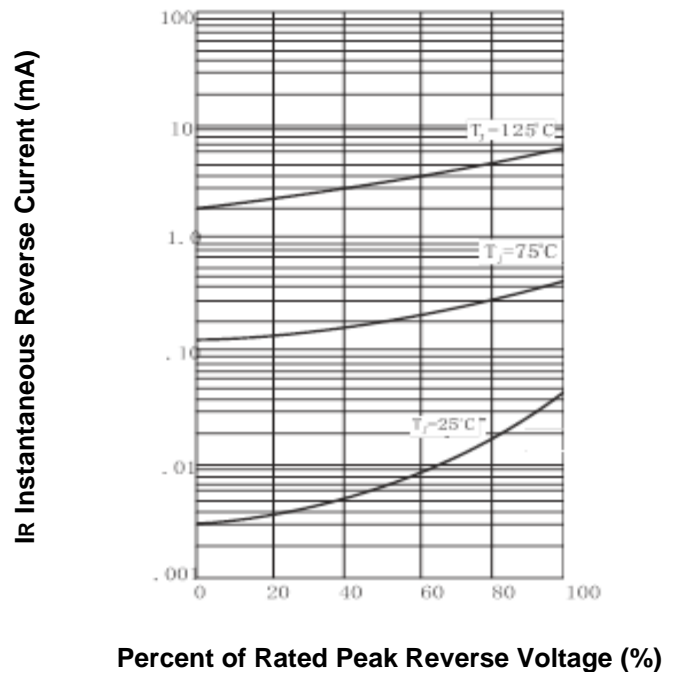
**Fig.2-Max. Non-repetitive Peak Forward Surge Current**



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



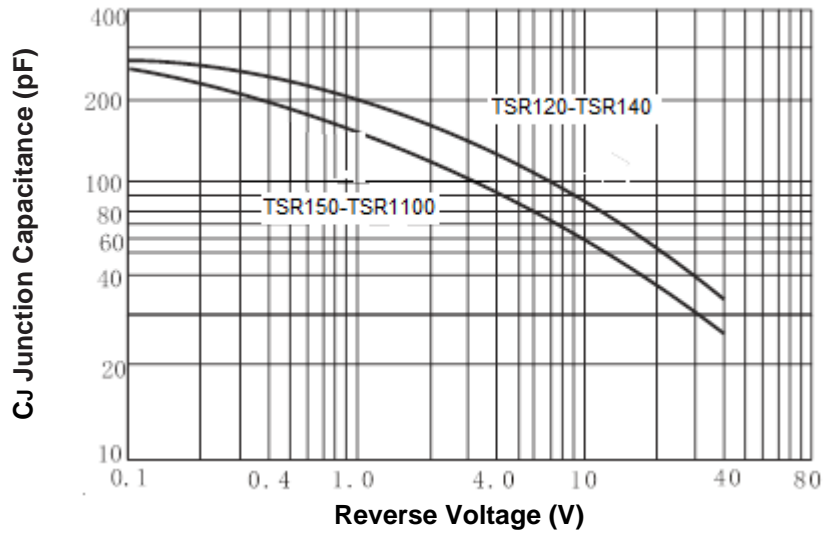
**Fig.4- Typical Reverse Characteristics**



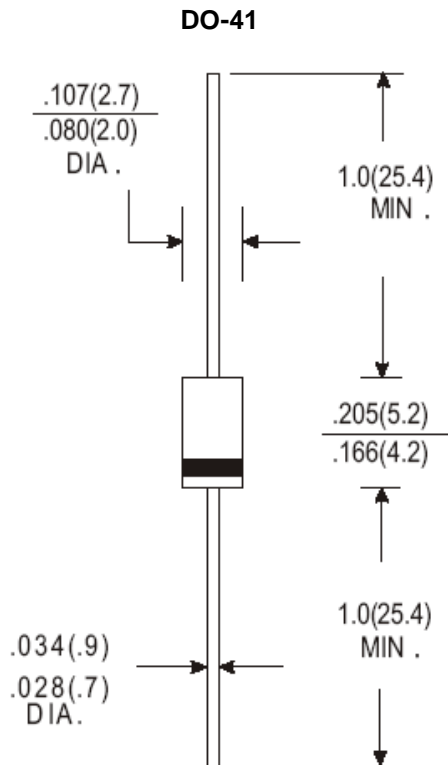
# 1.0 A Schottky Barrier Rectifier

## TSR120 -TSR1100

Fig.5-Typical junction capacitance



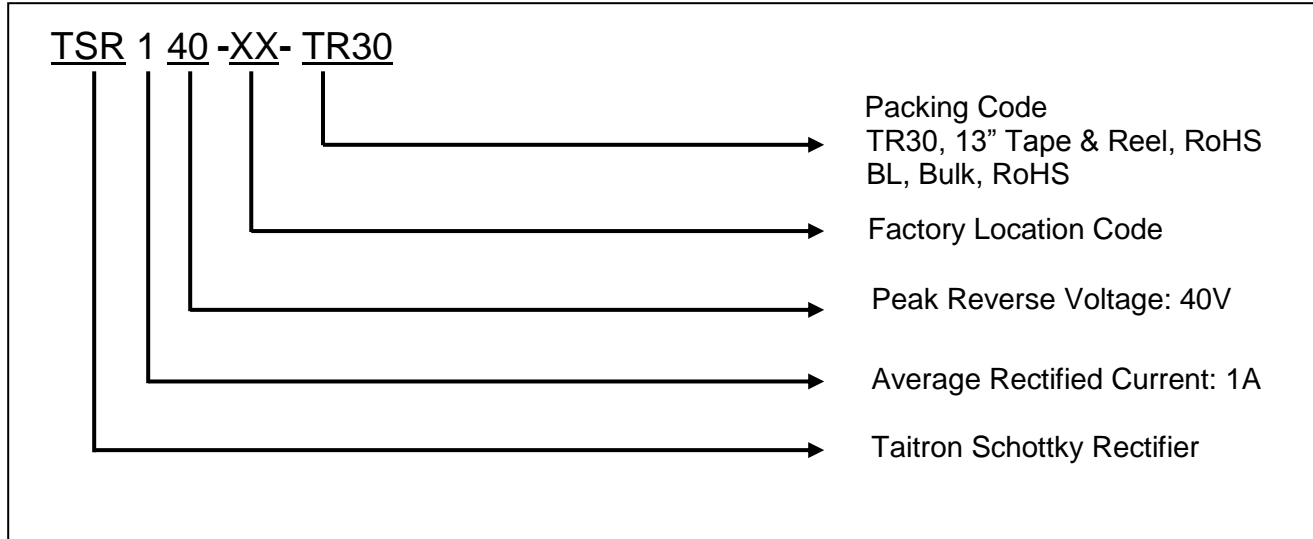
### Dimensions in inches (mm)



# 1.0 A Schottky Barrier Rectifier

## TSR120 -TSR1100

### Ordering Information



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