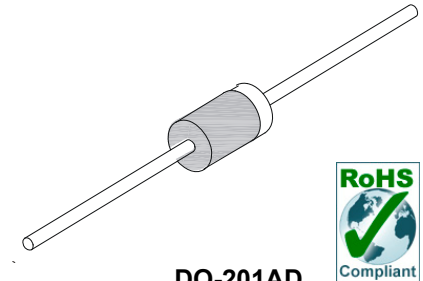


### 3.0A Schottky Barrier Rectifier

#### 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-201AD



#### Mechanical Data

<b>Case:</b>	DO-201AD, 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-750, Method 2026
<b>Weight:</b>	0.04 ounce, 1.12 grams

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

Symbols	Description	TSR 320	TSR 330	TSR 340	TSR 350	TSR 360	TSR 390	TSR 3100	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 (See Fig.1)	3.0							A
<b>IFSM</b>	Peak forward surge current (Note 1)	100							A
<b>VF</b>	Max. instantaneous forward voltage at 3.0A	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		10.0			
<b>RθJA</b>	Typical thermal resistance, Junction to Ambient (Note2)	30							° C/W
<b>CJ</b>	Typical Junction Capacitance (Note3)	250			180				pF
<b>TJ</b>	Operating junction temperature range	-65 to +125			-65 to +150				° C
<b>TSTG</b>	Storage Temperature Range	-65 to +150							° C

# 3.0 A Schottky Barrier Rectifier

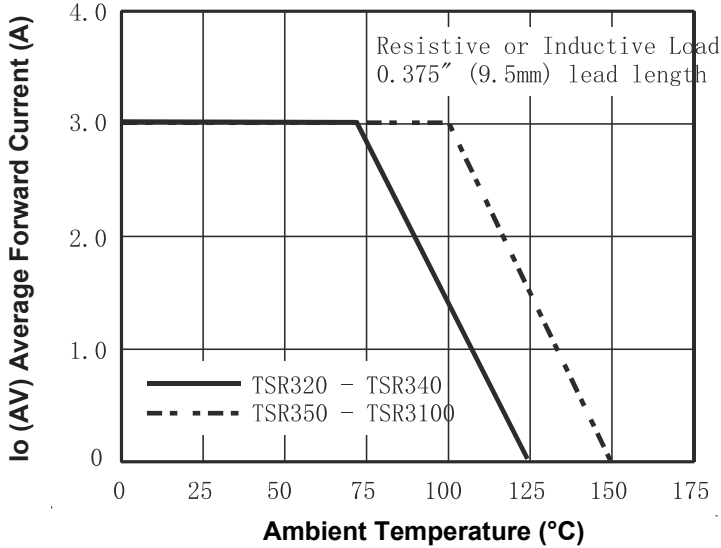
## TSR320 -TSR3100

**NOTES:**

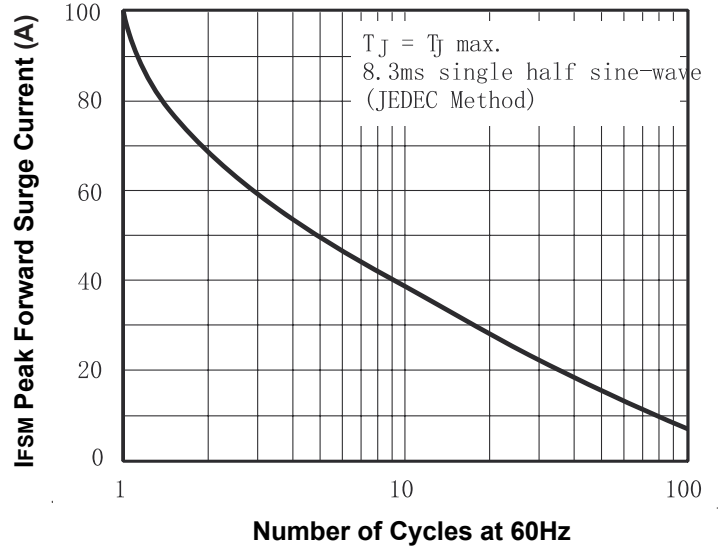
1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.
3. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.

### Typical Characteristics Curves

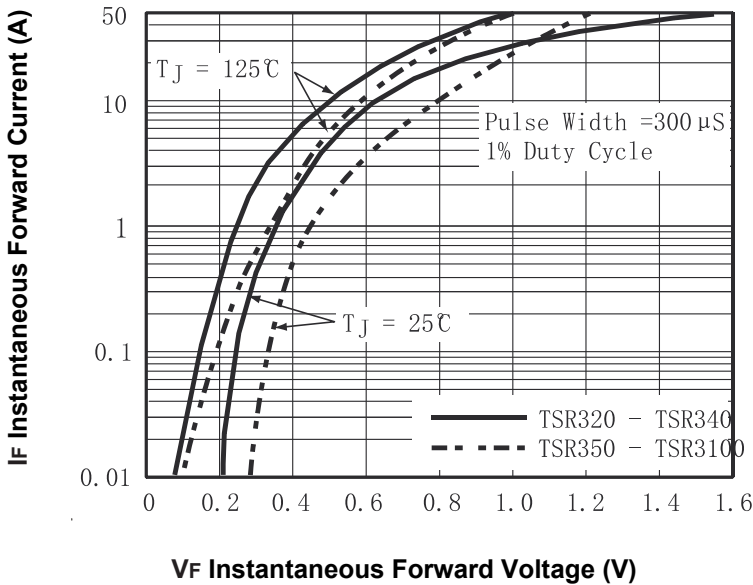
**Fig.1- Typical Forward Current Derating Curve**



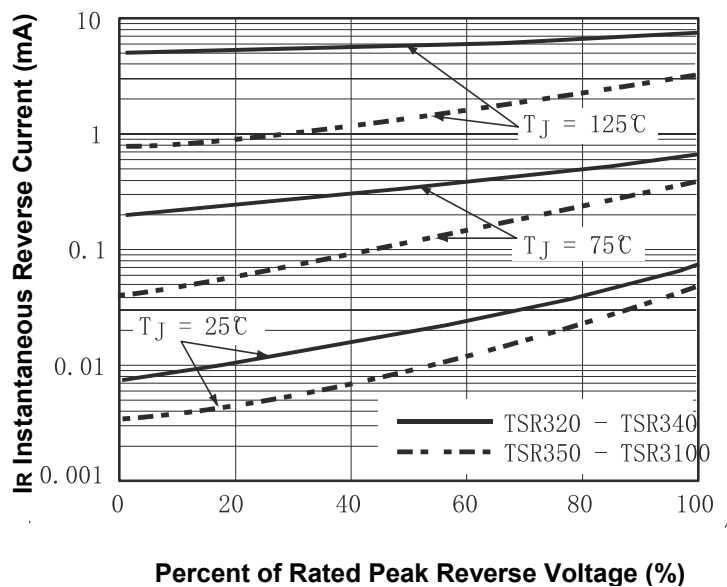
**Fig.2-Max. Non-repetitive Peak Forward Surge Current**



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



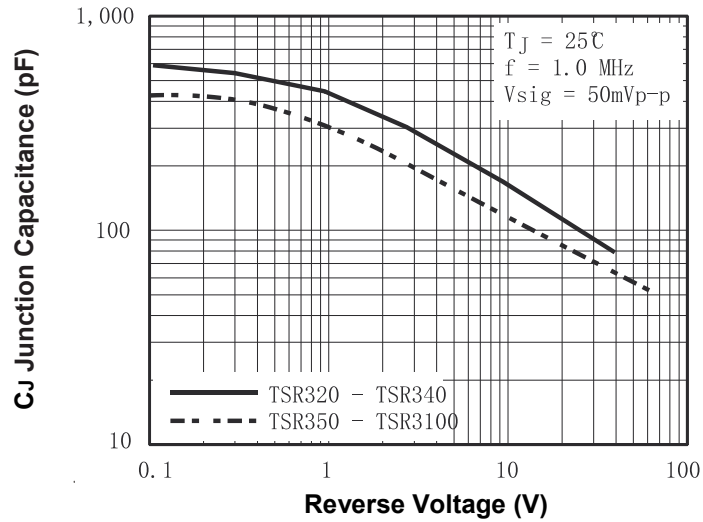
**Fig.4- Typical Reverse Characteristics**



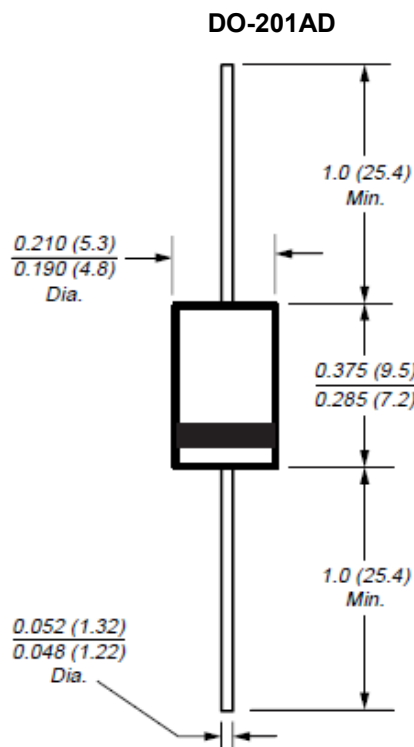
# 3.0 A Schottky Barrier Rectifier

## TSR320 -TSR3100

Fig.5-Typical junction capacitance



### Dimensions in inches (mm)



## 3.0 A Schottky Barrier Rectifier

TSR320 -TSR3100

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