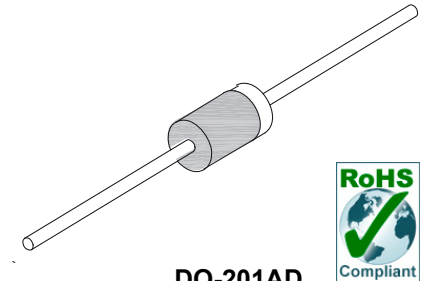


3.0A Schottky Barrier Rectifier

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

Case:	DO-201AD, Molded Plastic
Epoxy:	UL 94V-0 Rate Flame Retardant
Polarity:	Color Band Denotes Cathode End
Terminals:	Axial leads, solderable per MIL-STD-750, Method 2026
Weight:	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
VRRM	Max. recurrent peak reverse voltage	20	30	40	50	60	90	100	V
VRMS	Max. RMS voltage	14	21	28	35	42	63	70	V
VDC	Max. DC blocking voltage	20	30	40	50	60	90	100	V
Io(AV)	Max. average forward rectified current (See Fig.1)	3.0							A
IFSM	Peak forward surge current (Note 1)	100							A
VF	Max. instantaneous forward voltage at 3.0A	0.55		0.70		0.85			V
IR	Max. DC reverse current at rated DC blocking voltage	TA =25°C		0.5					mA
		TA =100°C		20.0		10.0			
RθJA	Typical thermal resistance, Junction to Ambient (Note2)	30							° C/W
CJ	Typical Junction Capacitance (Note3)	250			180				pF
TJ	Operating junction temperature range	-65 to +125			-65 to +150				° C
TSTG	Storage Temperature Range	-65 to +150							° C

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

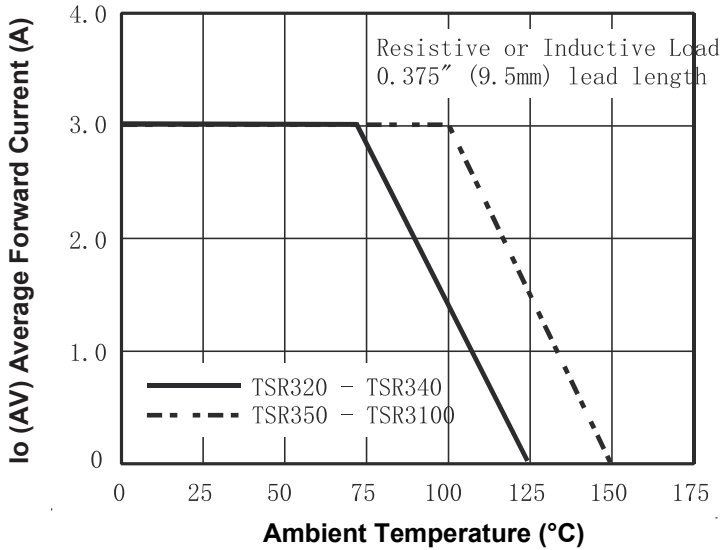


Fig.2-Max. Non-repetitive Peak Forward Surge Current

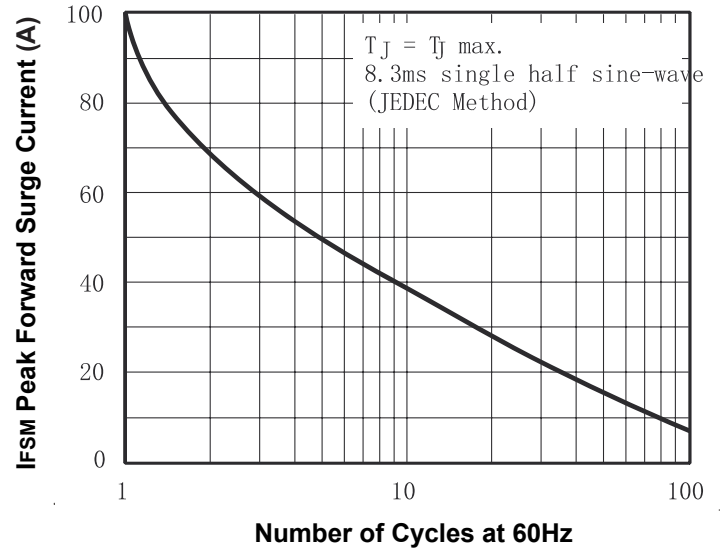


Fig.3- Typical Instantaneous Forward Characteristics

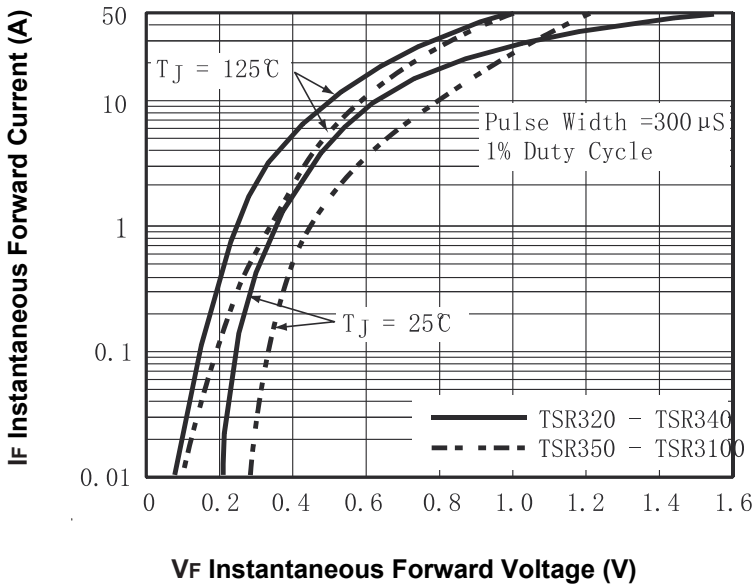
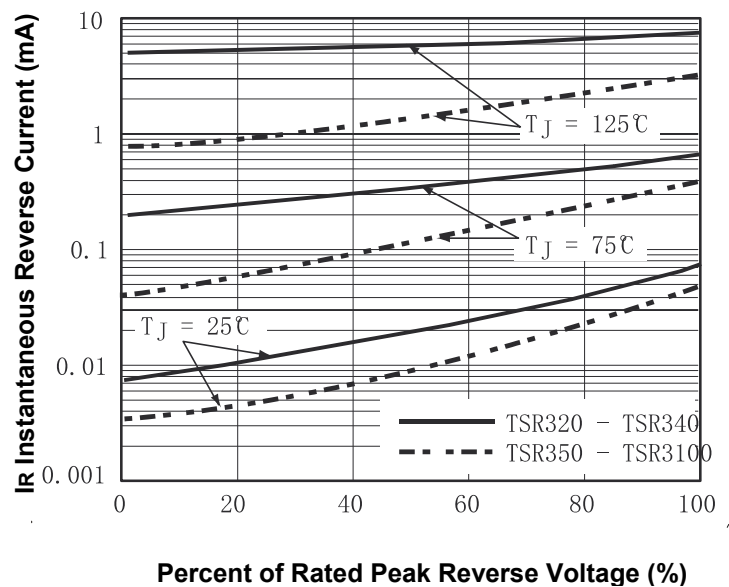


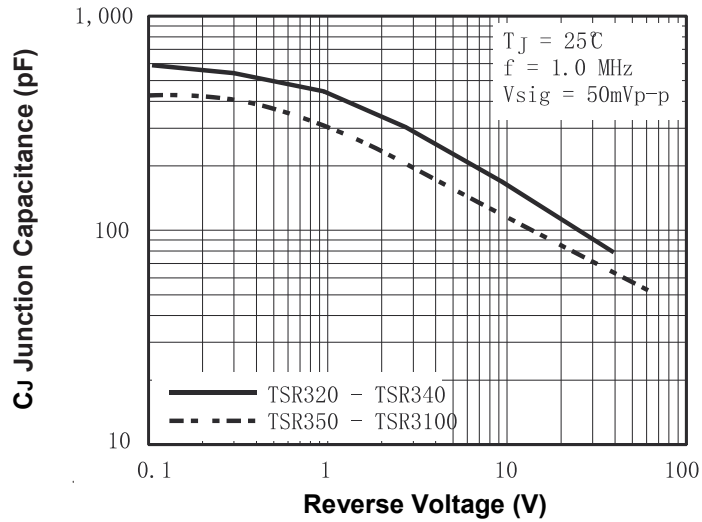
Fig.4- Typical Reverse Characteristics



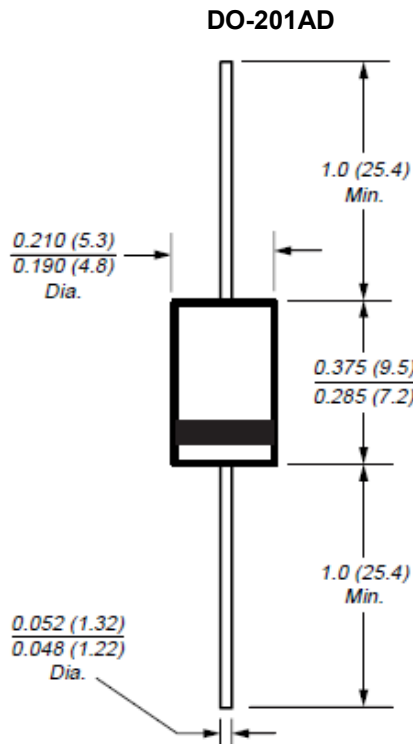
3.0 A Schottky Barrier Rectifier

TSR320 -TSR3100

Fig.5-Typical junction capacitance



Dimensions in inches (mm)



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