

# SR302~SR3010

## SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 20 to 100 Volt **CURRENT** 3 Amper

DO-201AD

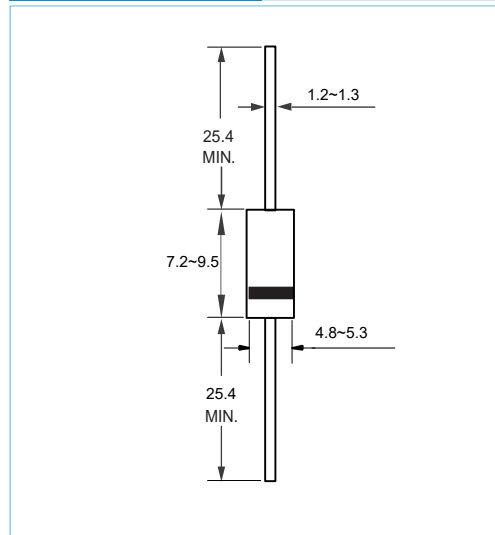
Unit:mm

### FEATURES

- Low Forward Drop
- High Surge Current Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SR302	SR303	SR304	SR305	SR305	SR308	SR3010	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	60	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	42	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	60	60	80	100	V
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	3							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80							A
Maximum Forward Voltage at 3.0 A	$V_F$	0.55			0.72		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	1.0							mA
Thermal Resistance (Note2)	$R_{\theta JA}$	20							°C / W
Typical Junction Capacitance (Note1)	$C_J$	300							pF
Operating Junction Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

### NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 1.27mm Lead Length.

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## RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

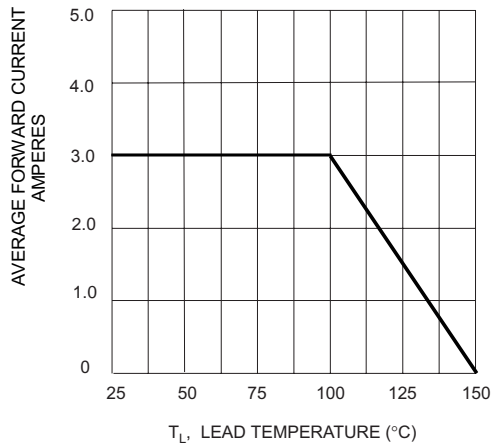


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

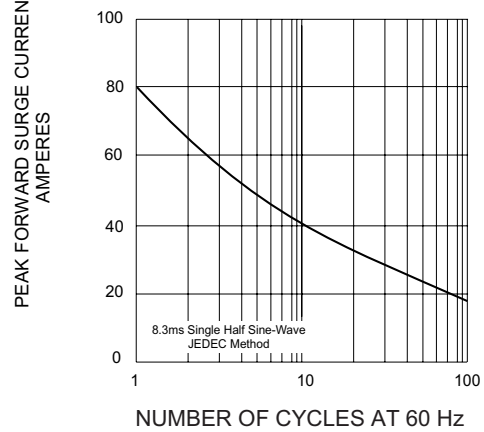


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

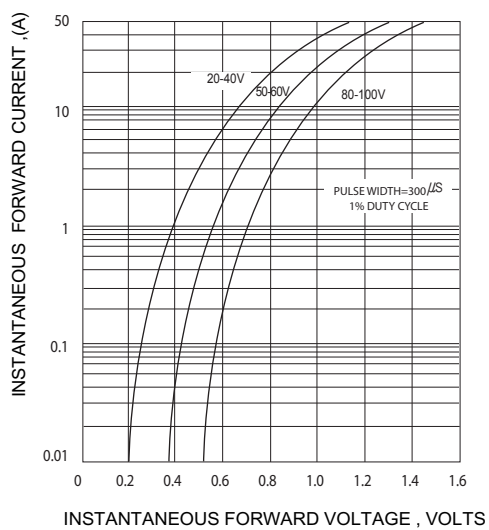
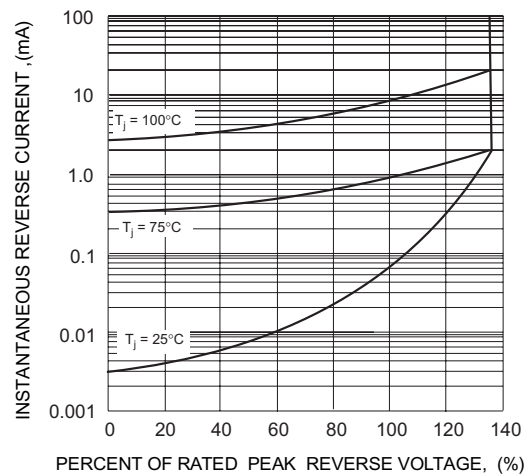


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SR302~SR3010	DO-201AD	13 Inch	1200