SR3X0 SERIES

SCHOTTKY BARRIER RECTIFIER

产品规格确认书

SR320 THRU SR3100

SCHOTTKY BARRIER RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **20 to 100 VOLTS**

FORWARD CURRENT: **3.0 AMPERE**

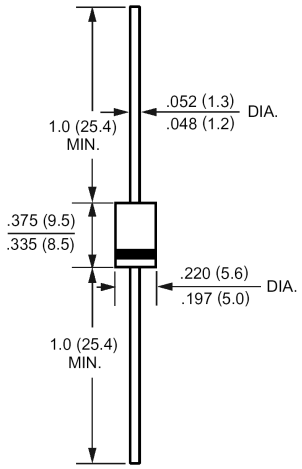
FEATURES

· High current capability
· High surge current capability
· Low forward voltage drop
· Exceeds environmental standards of MIL-S-19500/228
· For use in low voltage, high frequency inverters
free wheeling, and porlarlity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-201AD
Epoxy: UL 94V-O rate flame retardant
Lead: Axial leads, solderable per MIL-STD-202,
method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.04ounce, 1.1gram

DO-201AD



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*SR320*	*SR330*	*SR340*	*SR350*	*SR360*	*SR380*	*SR3100*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	**Volts**
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	**Volts**
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	**Volts**
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length	$I_{(AV)}$	3.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							**Amp**
Maximum Forward Voltage at 3.0A DC and 25℃	V_F	0.55			0.70		0.85		**Volts**
Maximum Reverse Current at T_A=25℃ / **at Rated DC Blocking Voltage T_A=100℃**	I_R	0.5 / 30							**mAmp**
Typical Junction Capacitance (Note 1)	C_J	300			250				**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							**℃/W**
Operating Junction Temperature Range	T_J	-55 to +125			-55 to +150				**℃**
Storage Temperature Range	Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

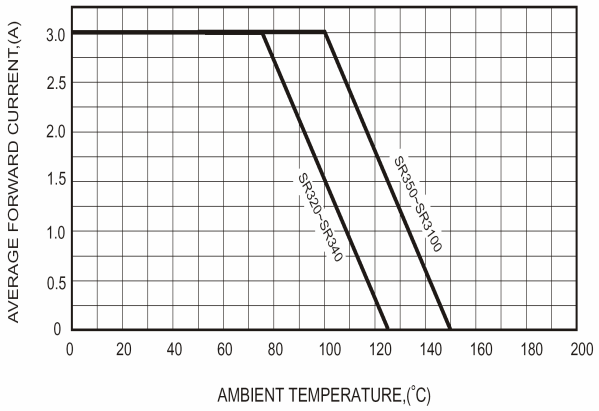

FIG.2-TYPICAL FORWARD CHARACTERISTICS

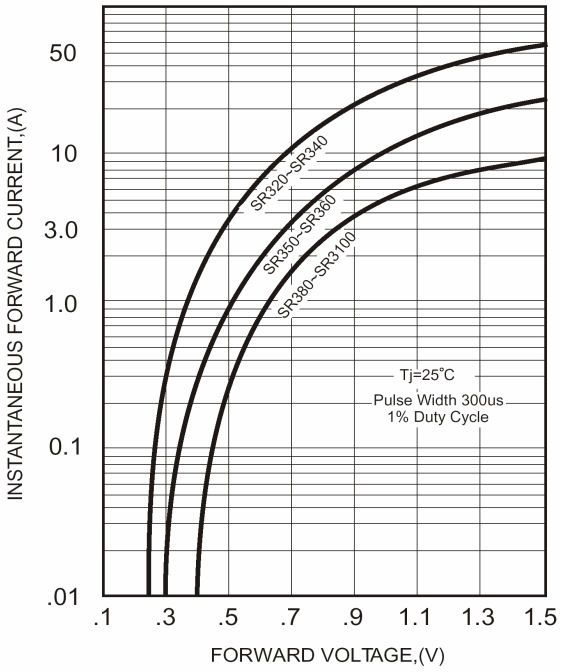

FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

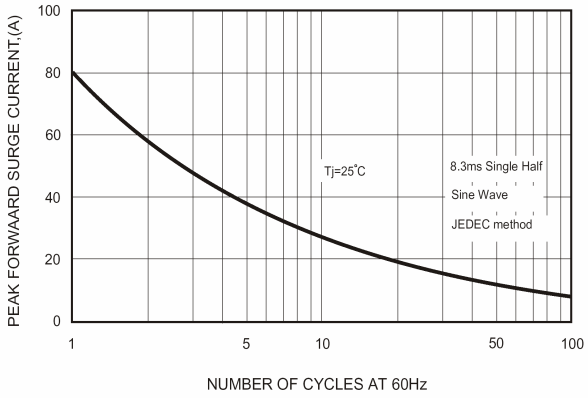

FIG.4-TYPICAL JUNCTION CAPACITANCE

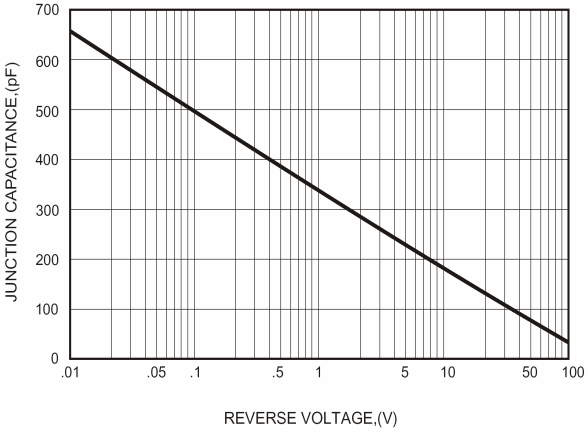

FIG.5 - TYPICAL REVERSE CHARACTERISTICS