

5.0AMP SCHOTTKY BARRIER RECTIFIERS- 20~200Volts

DO-201AD PACKAGE

FEATURES

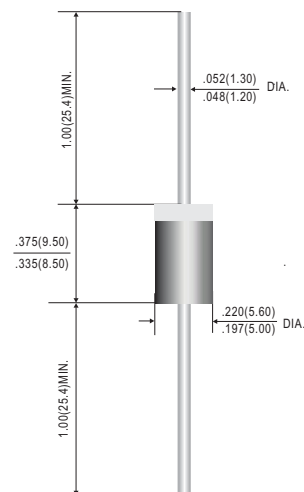
- * High reliability
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * Moisture Sensitivity Level 1
- * RoHs product for packing code suffix "G",
Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 1.18 gram



DO-201AD



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length	I _(AV)	5.0									Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150									Amp
Maximum Forward Voltage at 5.0A DC and 25℃	V _F	0.55			0.70		0.85		0.95		Volts
Maximum Reverse Current at T _A =25℃ at Rated DC Blocking Voltage T _A =100℃	I _R	2.0 30									mAmp
Typical Junction Capacitance (Note 1)	C _J	500			380			200			pF
Typical Thermal Resistance (Note 2)	R _{θJA}	25									℃/W
Operating Junction Temperature Range	T _J	-55 to +125			-55 to +150						℃
Storage Temperature Range	T _{stg}	-55 to +150									℃

NOTES:

1- Measured at 1 MHz 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



WILLAS



SR520

THRU

SR5200

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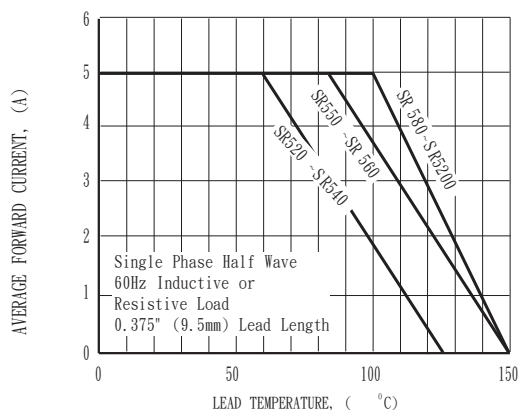


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

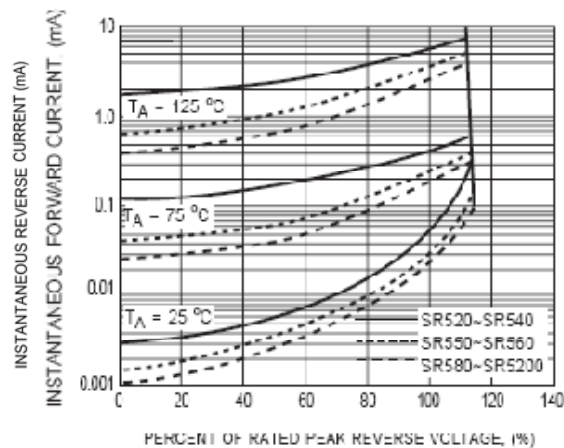


FIG.2 TYPICAL REVERSE CHARACTERISTICS

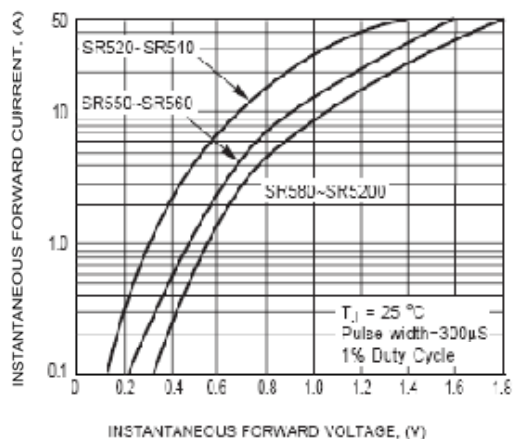


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

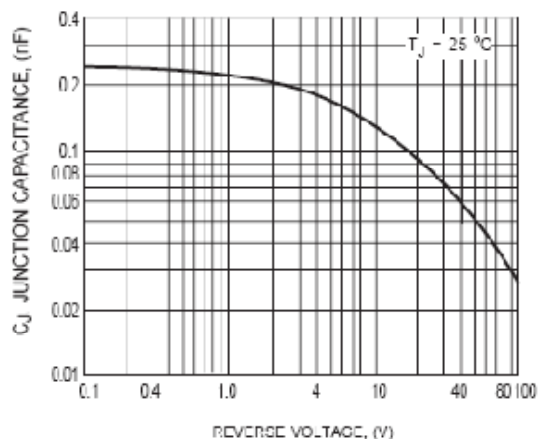


FIG.4 TYPICAL JUNCTION CAPACITANCE

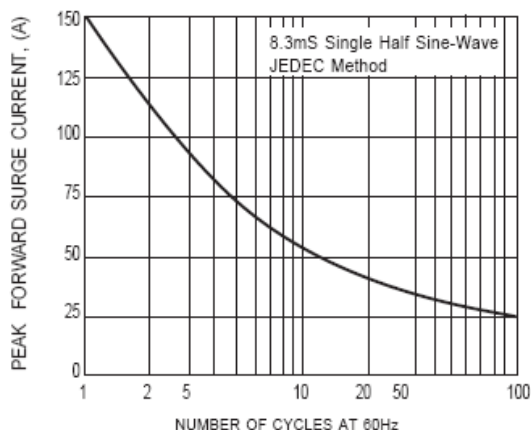


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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Ordering Information:

Device PN	Packing
Part Number -F ⁽¹⁾ G ⁽²⁾ -WS	Tape & Ammo Packing:1.2Kpcs/box
Part Number -B ⁽¹⁾ G ⁽²⁾ -WS	Bulk Packing: 0.5Kpcs/Box

Note: 1. Packing code, F(T): Tape & Ammo Packing, () is old packing code ; B: Bulk Packing.

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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