



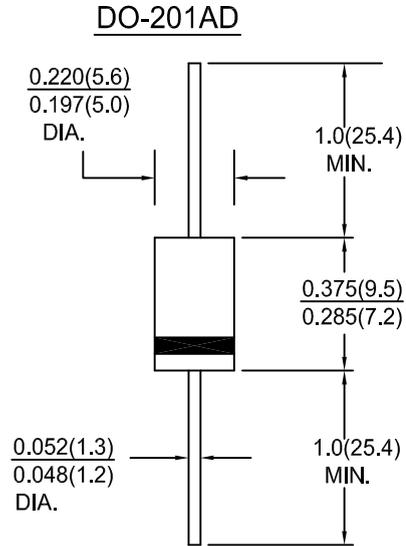
SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- High reliability
- High surge current capability
- Low forward voltage drop
- High current capability
- Epitaxial construction

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy
 Terminals : Axial leads, solderable per MIL-STD-202 Method 208
 Polarity : Color band on body denotes cathode end
 Mounting Position : Any
 Weight : 1.12 grams, 0.040 ounce



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

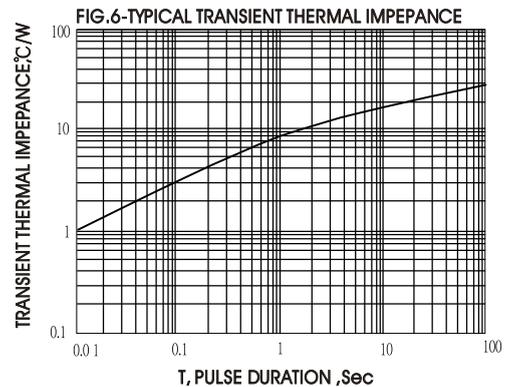
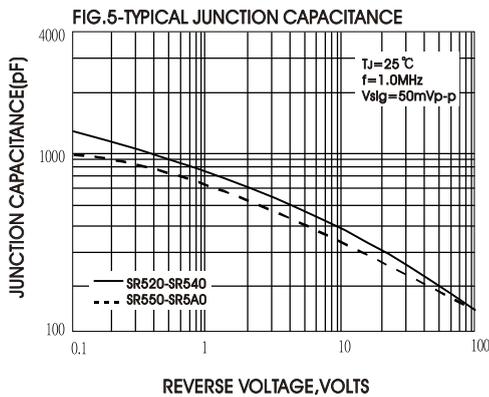
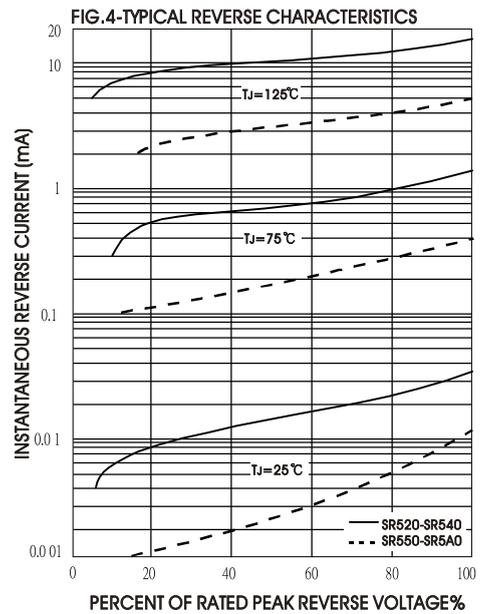
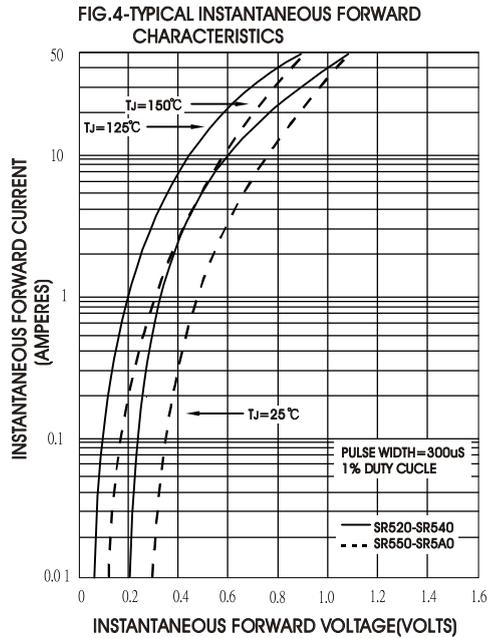
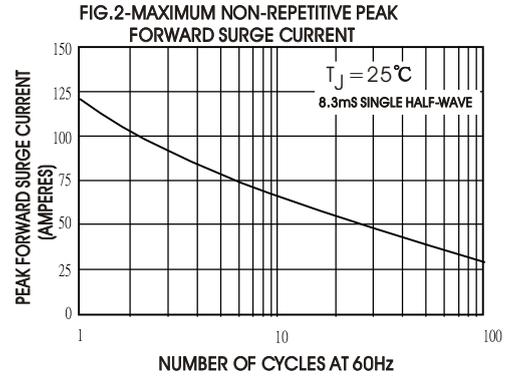
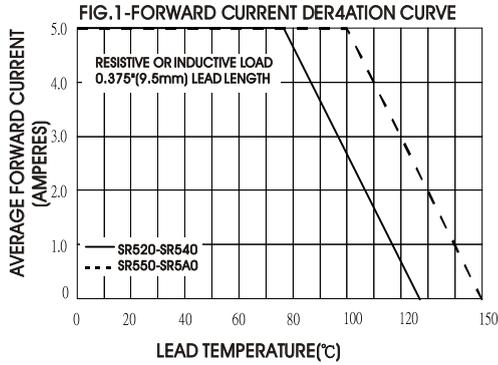
Rating at 25 °C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	SR580	SR5A0	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current	I(AV)	5.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	120							Amps
Maximum instantaneous forward voltage at 5.0 A(NOTE 3)	VF	0.55		0.70		0.85		Volts	
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 3)	IR	Ta=25°C			1.0			1.5	mA
		Ta=100°C			50			25	
Typical thermal resistance (note 1)	Rth-JA	25							°C/W
Typical junction capacitance (note 2)	Cj	500			400			pF	
Operating junction temperature range	Tj	-65 to +125			-65 to +150			°C	
Storage temperature range	Tstg	-65 to +150							°C

NOTES: 1. Thermal Resistance from junction to Ambient Vertical P.C.Board mounting,0.375"(9.5mm) Lead Length
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V dc
 3.Pulse test : 300 us pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES





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