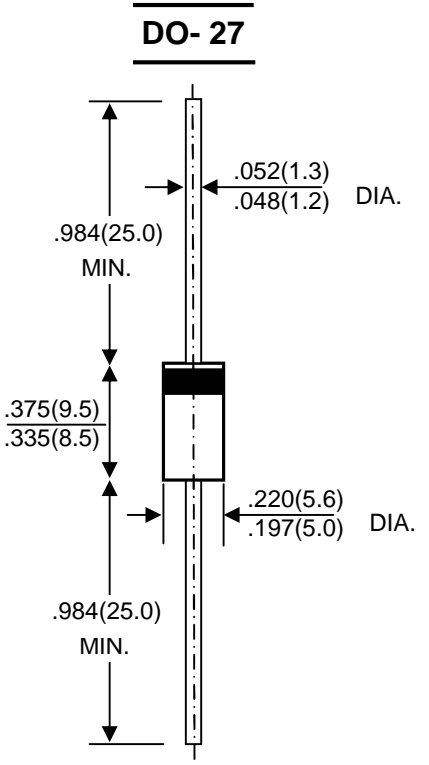


SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 5.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ● Metal-Semiconductor junction with guard ring ● Epitaxial construction ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 ● For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications ● AEC-Q101 qualified <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● Case: JEDEC DO-27 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.04ounces , 1.1grams ● Mounting position: Any 	<p>DO-27</p>  <p>Dimensions in inches and (millimeters)</p>

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _L =95 °C	I <sub(av)< sub=""></sub(av)<>	5.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	150							A
Maximum Forward Voltage at 5.0A DC	V _F	0.55		0.7		0.85		V	
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	1.0 50							mA
Typical Junction Capacitance (Note1)	C _J	500			350			pF	
Typical Thermal Resistance (Note2)	R _{θJL}	15			10			°C/W	
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 2.Thermal resistance junction to lead,
 3.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

SR520 thru SR5100



FIG. 1 - FORWARD CURRENT DERATING CURVE

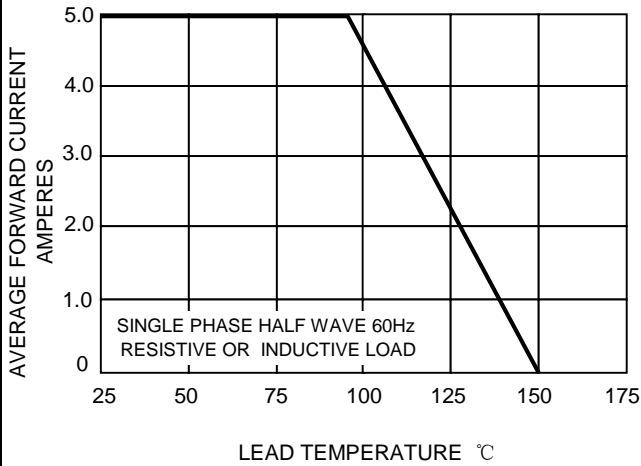


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

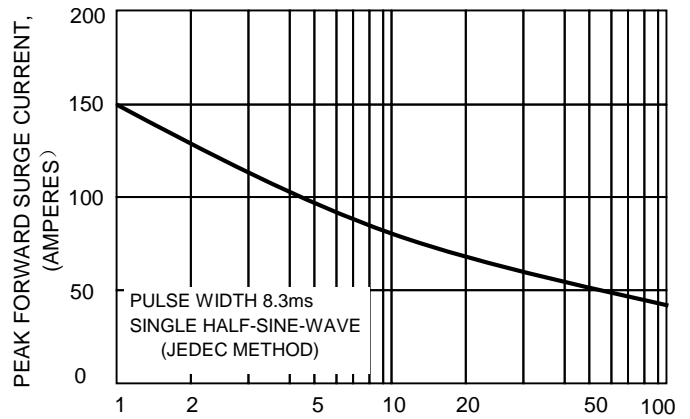


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

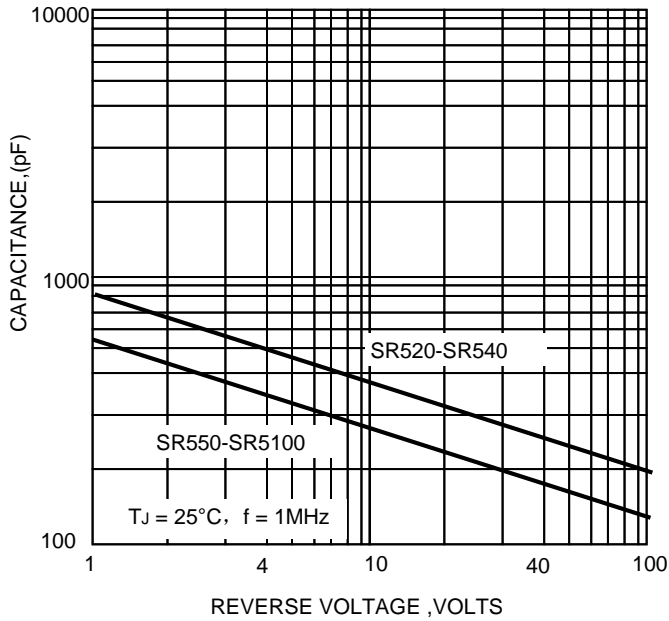


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

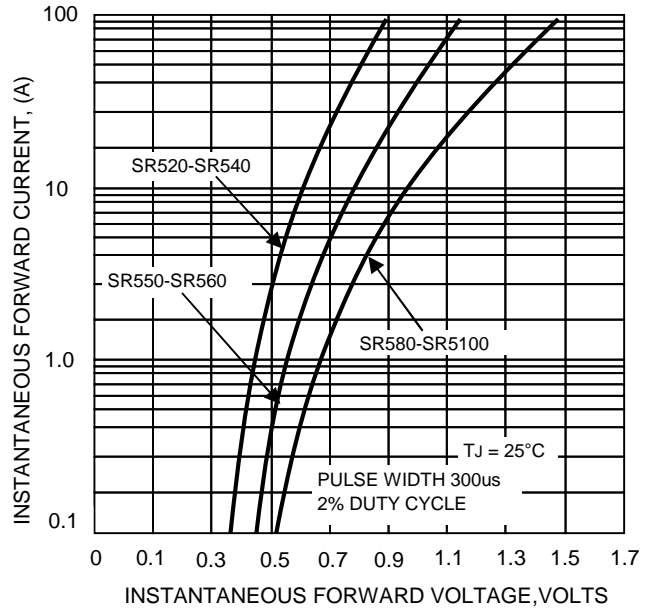
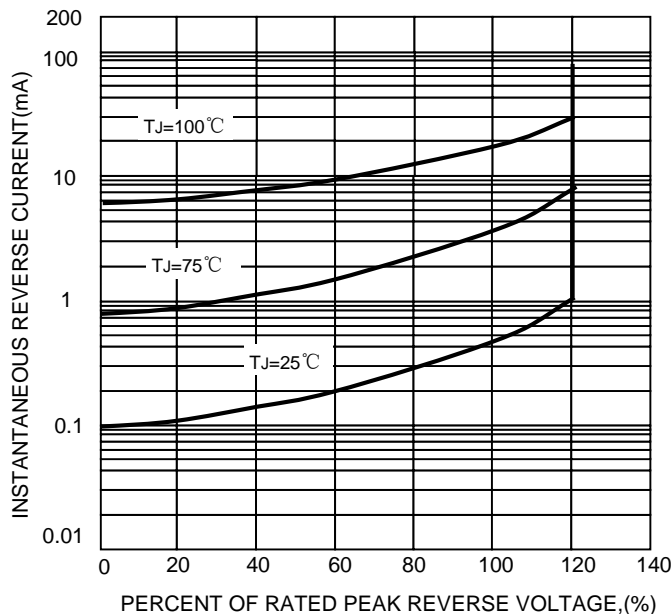


FIG. 5 - TYPICAL REVERSE



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!