SR520 THRU SR5200



5.0 AMP SCHOTTKY BARRIER RECTIFIERS



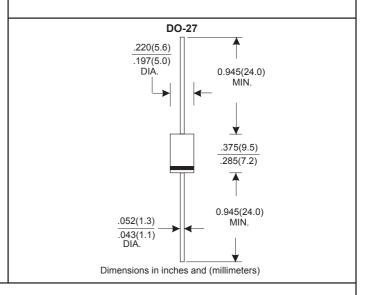
FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.00 grams
- * Both normal and Pb free product are available:
- * Normal:80~95%Sn,5~20%Pb
- * Pb free:99 Sn above can meet Rohs enviroment substance directive request

VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

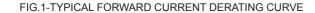
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SR520	SR540	SR560	SR580	SR5100	SR5150	SR5200	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	60	80	100	150	200	V
Maximum RMS Voltage	14	32	42	56	70	105	140	V
Maximum DC Blocking Voltage	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current								
See Fig. 1		5.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		150						Α
Maximum Instantaneous Forward Voltage at 5.0A	0.	0.55 0.70 0.85						V
Maximum DC Reverse Current Ta=25°C		200						uA
at Rated DC Blocking Voltage Ta=100℃		20						
Typical Junction Capacitance (Note1)		380						pF
Typical Thermal Resistance RθJA (Note 2)		10					°C/W	
Operating Temperature Range T _J		-65 —+150						°C
Storage Temperature Range Tsтg		-65—+150						

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR520 THRU SR5200)



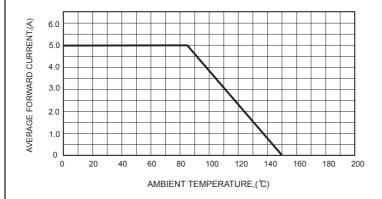


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

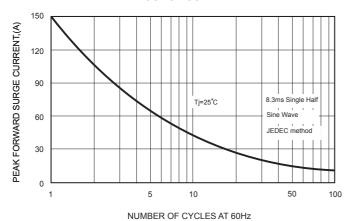


FIG.4-TYPICAL JUNCTION CAPACITANCE

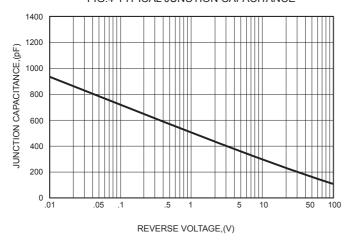


FIG.2-TYPICAL FORWARD

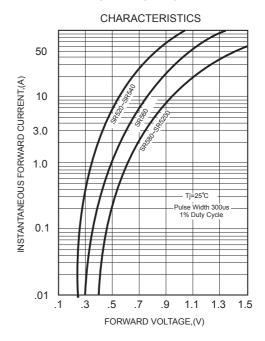


FIG.5 - TYPICAL REVERSE

