



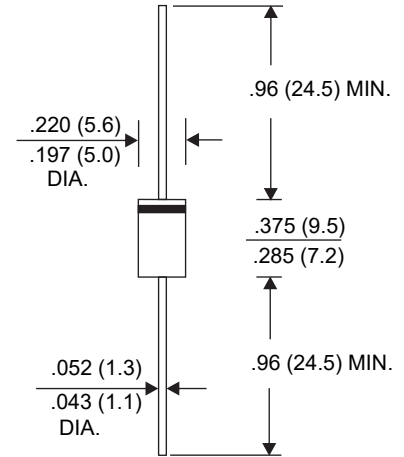
Schottky Barrier Rectifier

SR540 THRU SR5200 -PFF-01A 40 to 200 V 5.0A

DO-27(DO-201AD)

Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering:260°C MAX at 10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC D0-27(D0-201AD) molded plastic body



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%.

Type Number and marks	Symbols	SR 540	SR 545	SR 560	SR 580	SR 5100	SR 5120	SR 5150	SR 5200	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	80	100	120	150	200	Volts
Maximum RMS Voltage	V_{RMS}	28	31.5	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	40	45	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	$I_{(AV)}$	5.0								Amp
Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)	I_{FSM}	125								Amp
Maximum instantaneous forward voltage at $I_{(AV)}$	V_F	0.55	0.70	0.85		0.90	0.95		Volts	
Maximum DC reverse current at rated DC blocking voltage per	I_R	0.2			0.1				mA	
$T_j=25^\circ\text{C}$		20			6					
Typical Thermal Resistance	$R_{\theta JA}$	25								$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	-65 to +150								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ\text{C}$



Schottky Barrier Rectifier

SR540 THRU SR5200 -PFF-01A 40 to 200 V 5.0A

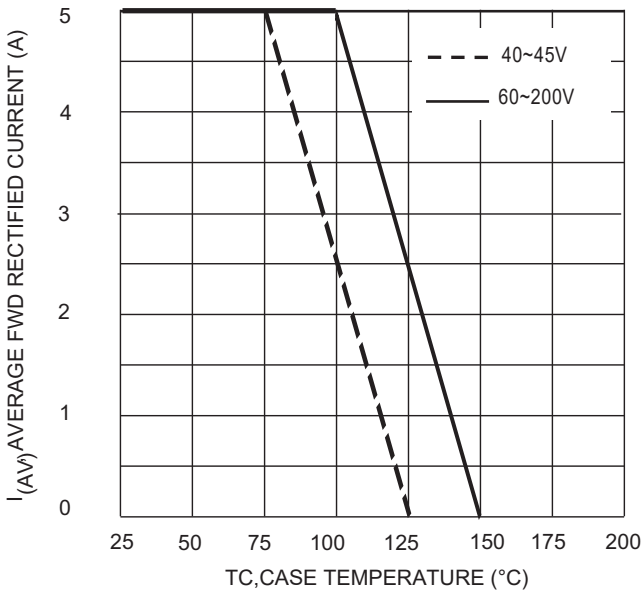


Fig. 1 Forward Derating Curve

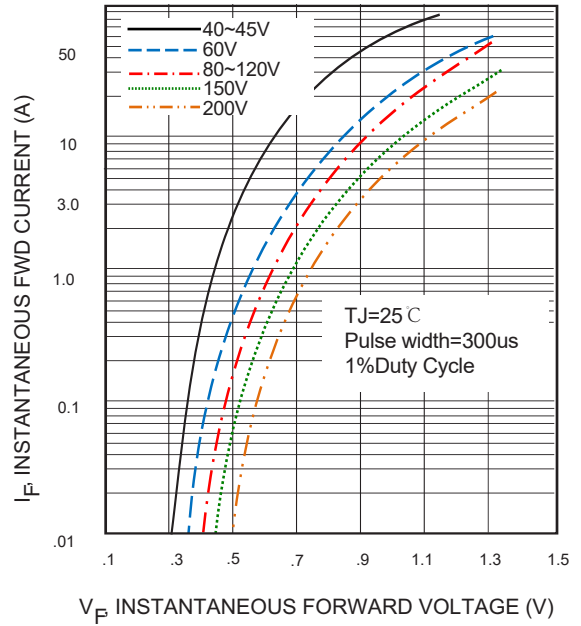


Fig. 2 Typical Forward Characteristics

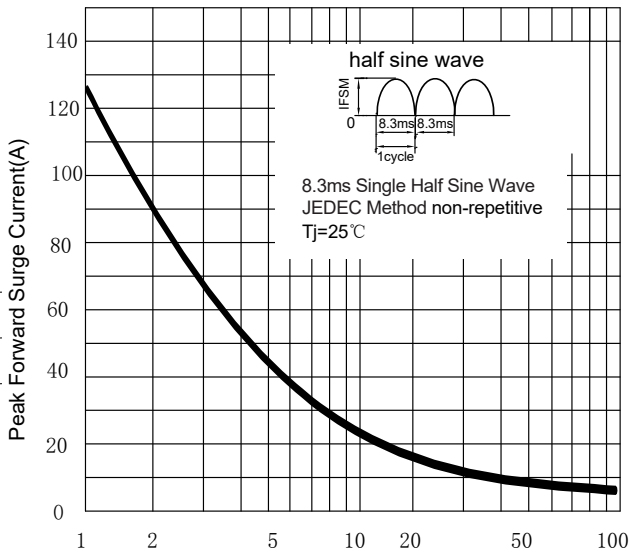


Fig. 3 Peak Forward Surge Current

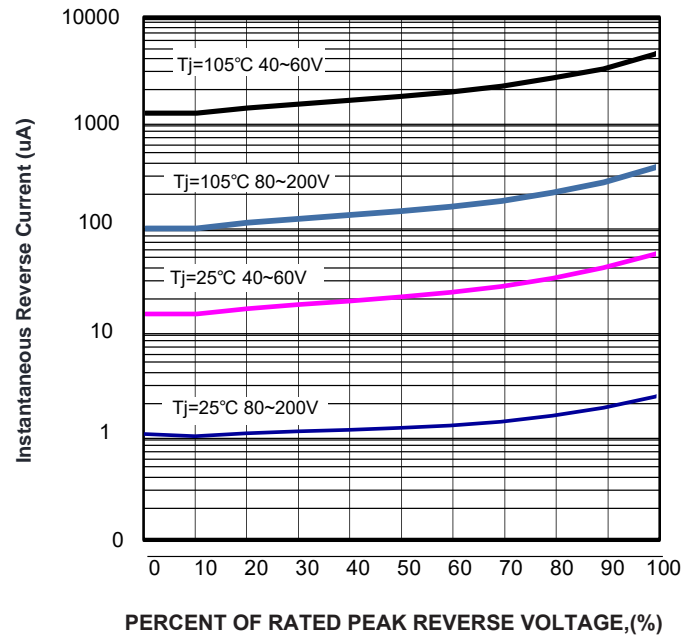


FIG.4-TYPICAL FORWARD CHARACTERISTICS