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**SR520  
THRU  
SR5100**

**5 Amp Schottky  
Barrier Rectifier  
50 to 100 Volts**

**Features**

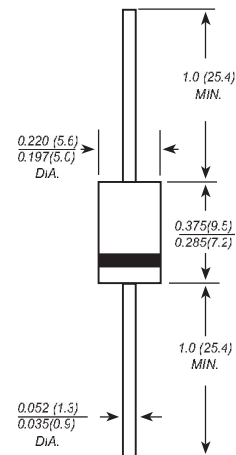
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant.)
- Low Forward Voltage Drop and Low Switching Noise
- High Surge Current Capability and High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

**Maximum Ratings**

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 18°C/W Junction To Ambient

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR520	SR520	20V	14V	20V
SR530	SR530	30V	21V	30V
SR540	SR540	40V	28V	40V
SR550	SR550	50V	35V	50V
SR560	SR560	60V	42V	60V
SR580	SR580	80V	56V	80V
SR5100	SR5100	100V	70V	100V

**DO-201AD**



**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	5.0A	$T_A = 85^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.55V .70V .85V	$I_{FM} = 5.0A;$ $T_A = 25^\circ\text{C}$
SR520-SR540			
SR550-SR560			
SR580-SR5100			
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	1.0mA	$T_A = 25^\circ\text{C}$
Typical Junction Capacitance	$C_J$	200pF	Measured at 1.0MHz, $V_R=4.0V$

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

## SR520 thru SR5100

Figure 1  
Typical Forward Characteristics

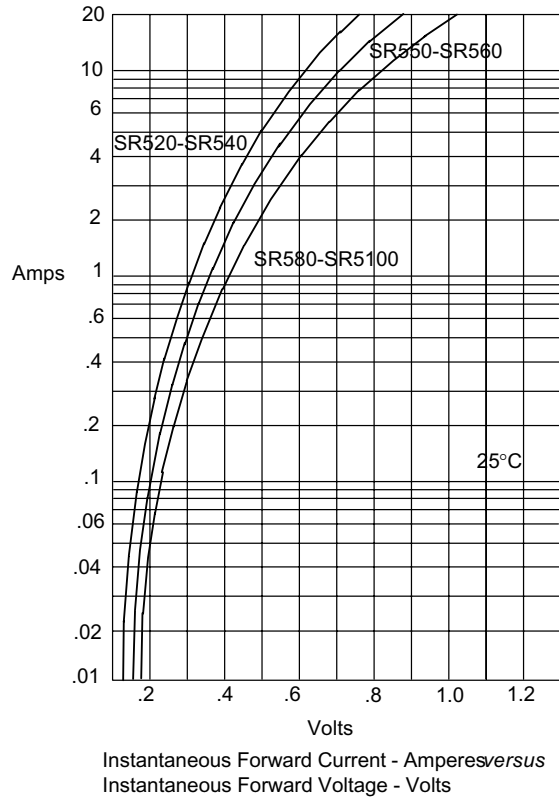


Figure 2  
Forward Derating Curve

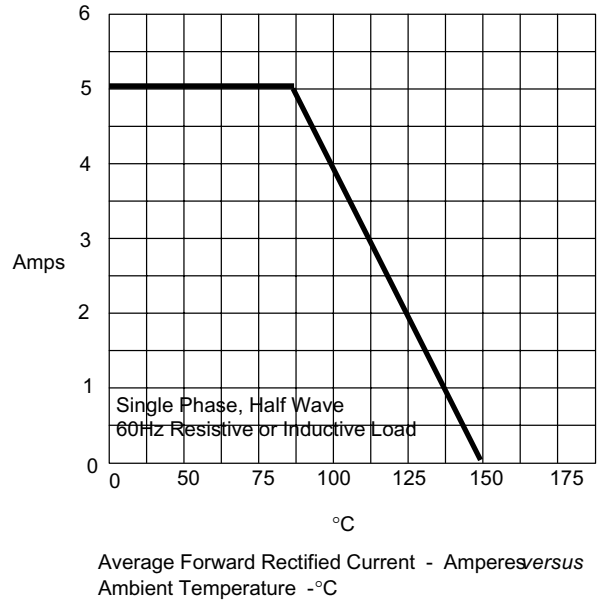


Figure 3  
Maximum Non-Repetitive Forward Surge Current

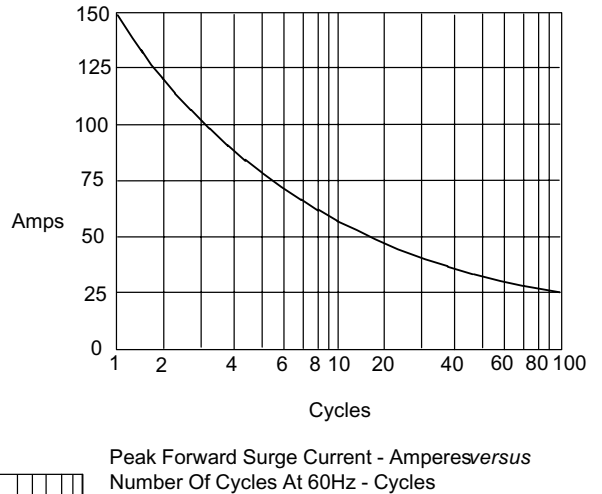


Figure 4  
Junction Capacitance

