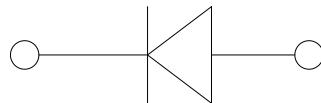
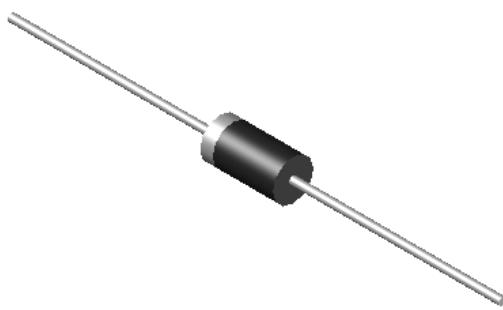


Schottky Barrier Rectifier



Features

- Guardring for overvoltage protection
- Low power loss
- Extremely fast switching
- High forward surge capability
- High frequency operation
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- **Package:** DO-201AD (DO-27)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

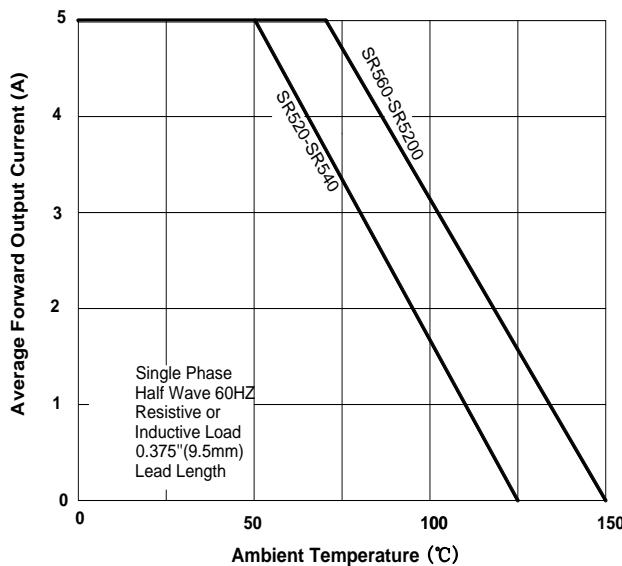
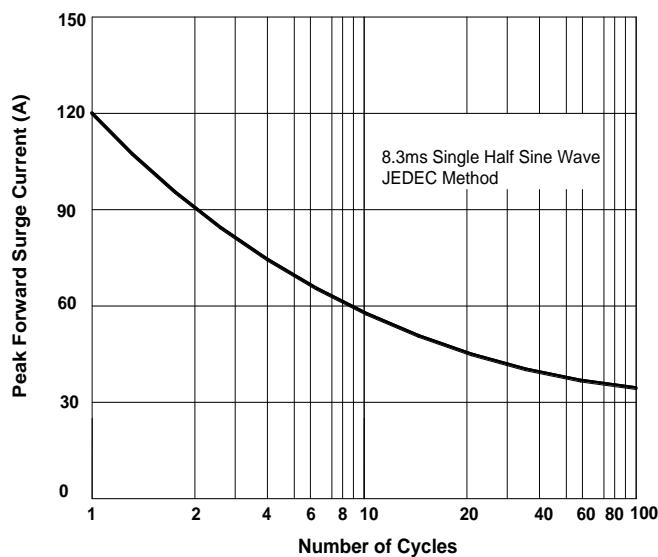
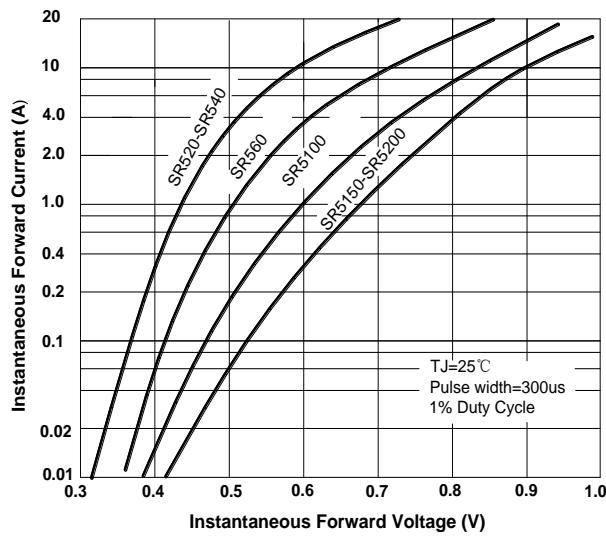
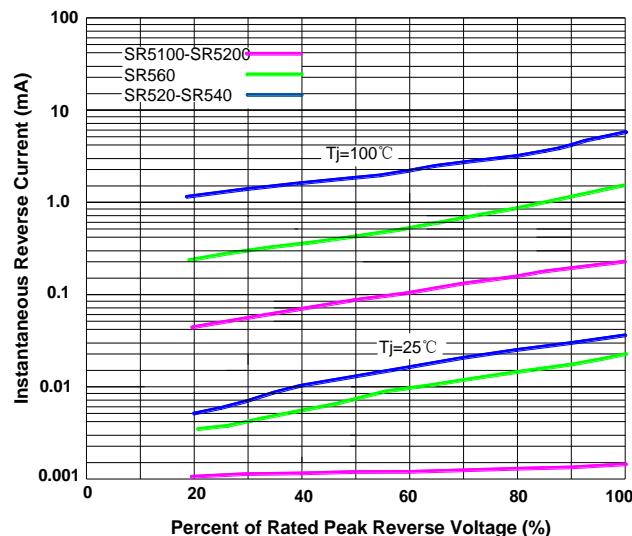
PARAMETER	SYMBOL	UNIT	SR520	SR540	SR560	SR5100	SR5150	SR5200
Device marking code			SR520	SR540	SR560	SR5100	SR5150	SR5200
Repetitive Peak Reverse Voltage	V _{RRM}	V	20	40	60	100	150	200
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	I _O	A			5.0			
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I _{FSM}	A			120			
Storage Temperature	T _{Stg}	°C			-55 ~+150			
Junction Temperature	T _j	°C	-55 ~+125		-55 ~+150			

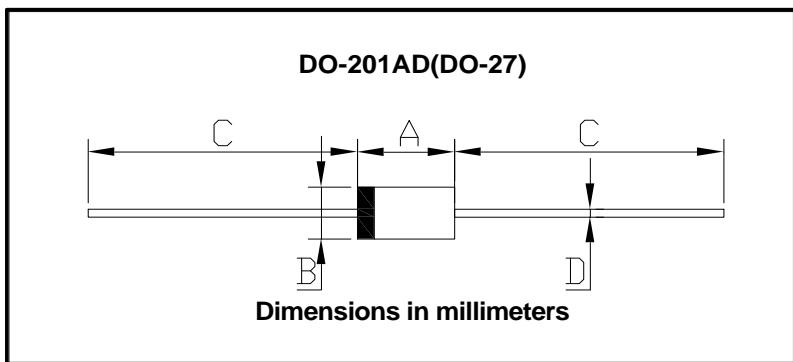
■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR520	SR540	SR560	SR5100	SR5150	SR5200
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =5.0A	0.55	0.7	0.85			
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	T _a =25°C	0.2		0.1			
			T _a =100°C	20		5			
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280	220	180	100		

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200
Thermal Resistance	$R_{\theta J-A}$	°C/W							20		

■ Characteristics (Typical)
FIG.1: Io-Ta Curve

FIG.2: Forward Surge Current Capability

FIG.3: Forward Voltage

FIG.4: Typical Reverse Characteristics


■ Outline Dimensions

DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.20	1.30