

■ **FEATURES**

- Guardring for overvoltage protection
- Low forward voltage drop, Low power losses
- 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** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR1040L	SR1060L	SR10100L
Device marking code			SR1040L	SR1060L	SR10100L
Repetitive Peak Reverse Voltage	VRRM	V	40	60	100
Average Rectified Output Current @60Hz sine wave, Resistance load, T_a (FIG.1)	I _O	A	10.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	I _{FSM}	A	120		
Storage Temperature	T _{stg}	°C	-55 ~+150		
Junction Temperature	T _j	°C	-55 ~+125	-55 ~+150	

■ **ELECTRICAL CHARACTERISTICS** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR1040L	SR1060L	SR10100L
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =10.0A	0.48		0.75
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	$T_a=25^{\circ}\text{C}$	0.2		
			$T_a=100^{\circ}\text{C}$	50		
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	600	700	

Note (1) Typical junction capacitance measured at 1MHZ and applied reverse voltage of 4.0 V.D.C.

■ **THERMAL CHARACTERISTICS** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR1040L	SR1060L	SR10100L
Thermal Resistance Junction to ambient	R _{θJ-A}	°C/W	10		

■ **PACKAGING INFORMATION**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR1040L~SR10100L	D1	Approximate 1.05	1250	1250	12500	Tape
SR1040L~SR10100L	C1	Approximate 1.05	250	250	12500	Bulk

■ **CHARACTERISTICS (TYPICAL)**

FIG.1: I_o - T_a Curve

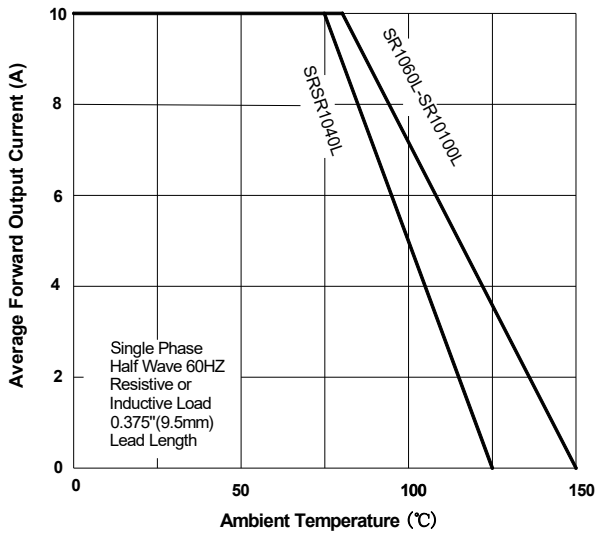


FIG2: Surge Forward Current Capability

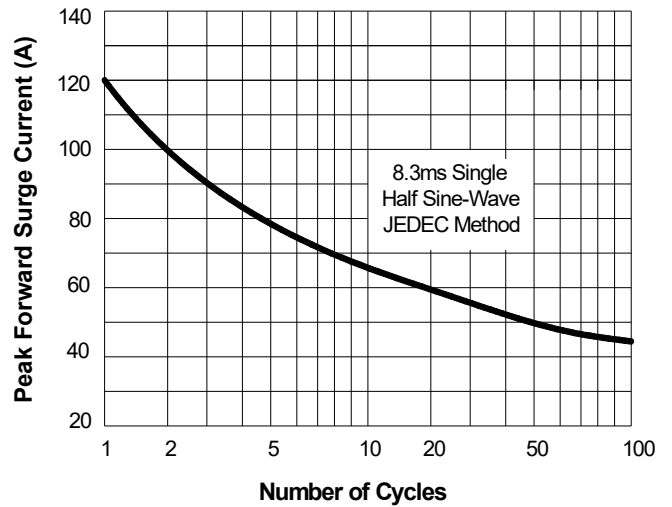


FIG.3: Forward Voltage

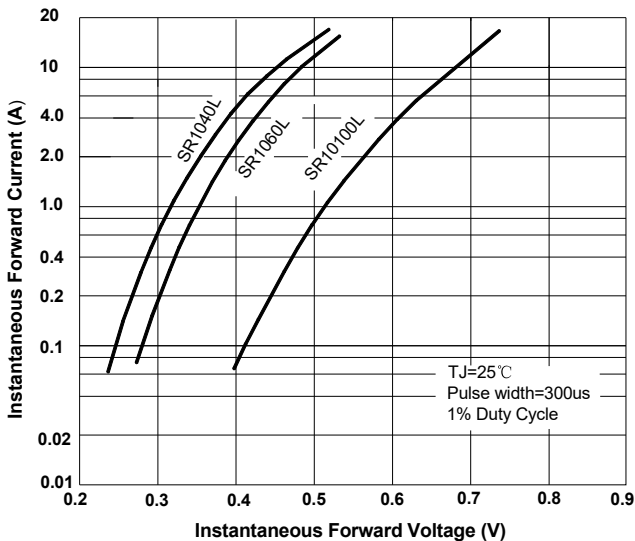
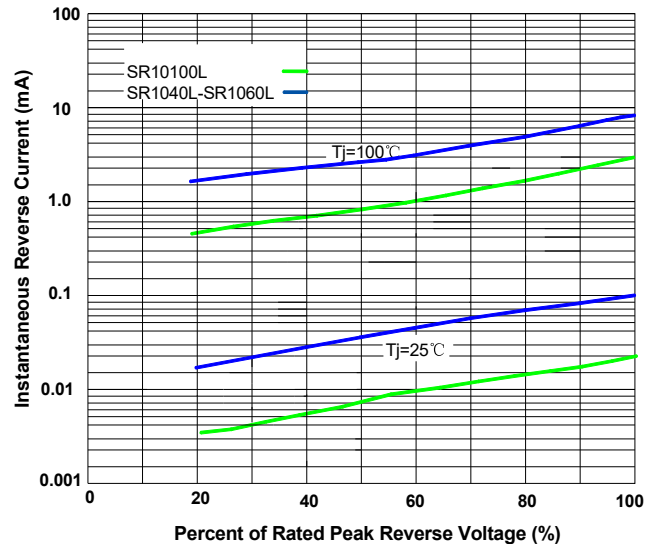
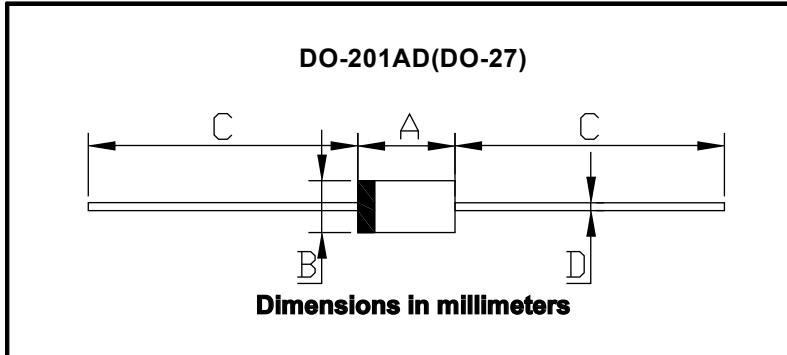


FIG.4: Typical Reverse Characteristics



■ **OUTLINE DIMENSIONS**



DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.2	1.3