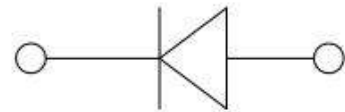


Features

- Low power loss
- Low forward voltage drop
- Guardring for overvoltage protection
- Extremely fast switching
- High frequency operation
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s ,
per JESD 22-B106



Typical Application

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 cathode end

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

PARAMETER	Symbol	Unit	Conditions	SR5100L
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SR5100L

Schottky Rectifier

Repetitive Peak Reverse Voltage	V_{RRM}	V		100
Average Rectified Output Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_a=75^{\circ}\text{C}$	5.0
Surge(Nonrepetitive)Forward Current	I_{FSM}	A	60HZ sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	150
Storage Temperature	T_{stg}	$^{\circ}\text{C}$		-55 ~ +150
Junction Temperature	T_j	$^{\circ}\text{C}$		-55 ~ +150

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SR5100L
Peak Forward Voltage	V_{FM}	V	$I_{FM}=3.0\text{A}$	0.75
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$ 0.2
	I_{RRM2}			$T_a=100^{\circ}\text{C}$ 5
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	Between junction and ambient	20
	$R_{\theta J-L}$		Between junction and lead	15
Typical junction capacitance	C_j	pF	Measured at 1 MHZ and Applied Reverse Voltage of 4.0 V.D.C	270

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

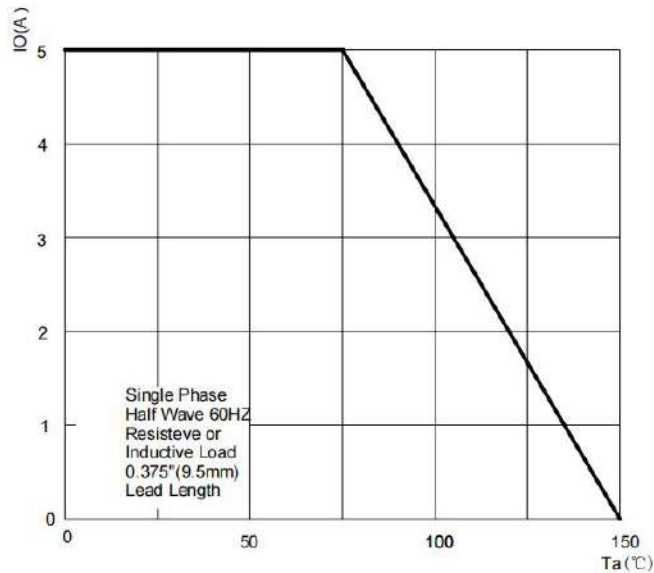


FIG2: Maximum Non-Repetitive Forward Surge Current

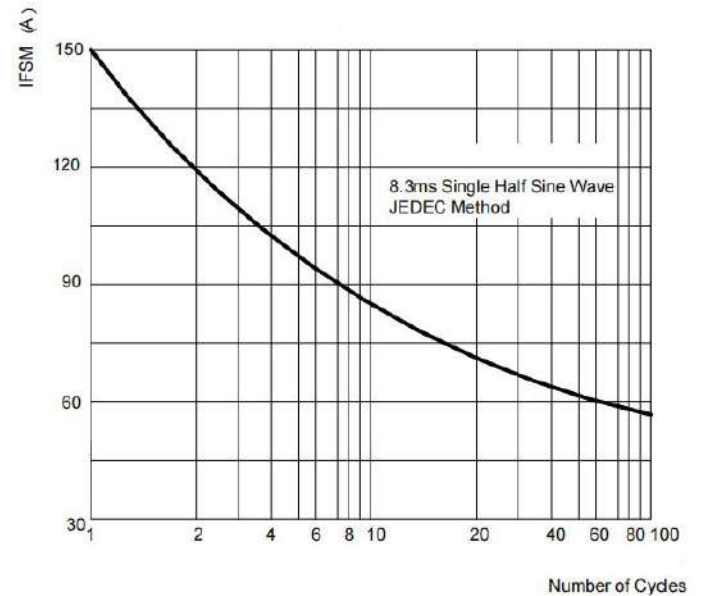


FIG3: Typical Forward Characteristics

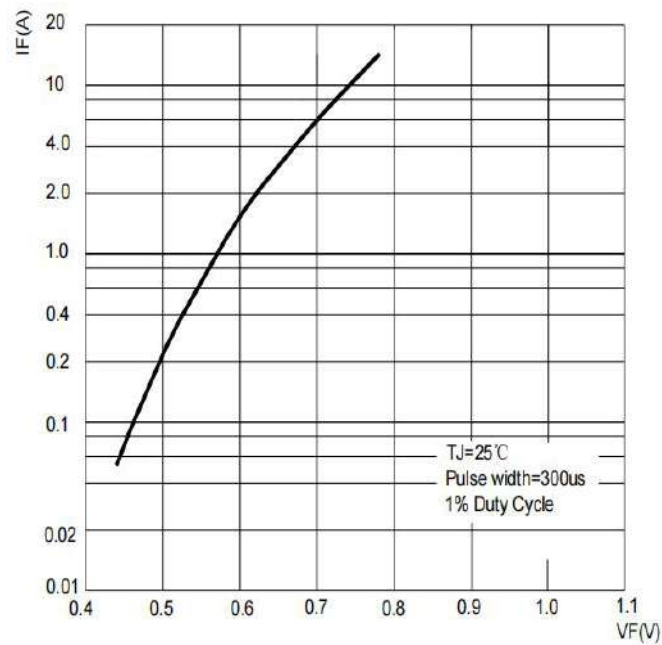
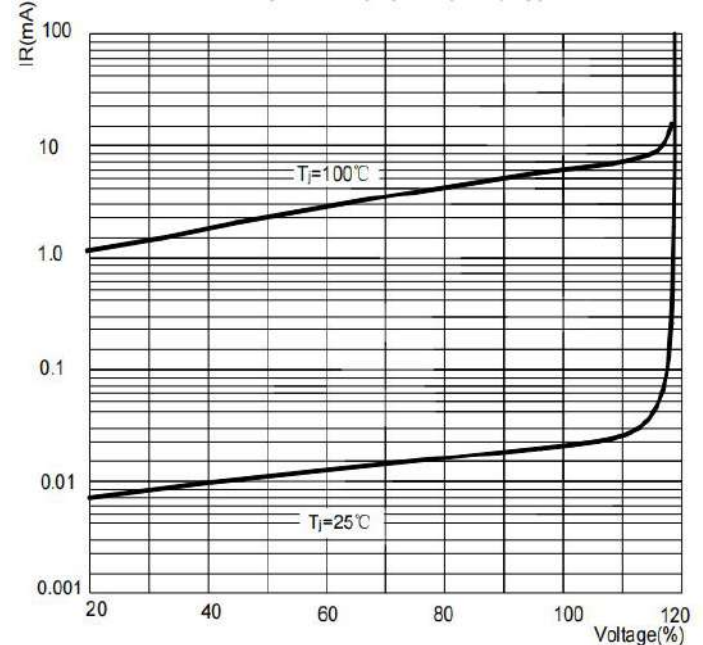


FIG4: Typical Reverse Characteristics



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR5100L	DO-201AD(DO-27)	1250	1250	12500	Tape

■ Outline Dimensions

