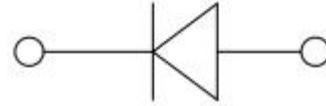


Features

- Low power loss
- 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-204AL(DO-41)
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	SR1
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SR120 THRU SR1100

Schottky Rectifier

			20	30	40	50	60	80	100	
Repetitive Peak Reverse Voltage	V_{RRM}	V	20	30	40	50	60	80	100	
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, T_a (FIG.1)							1.0
Surge(Nonrepetitive)Forward Current	I_{FSM}	A	60HZ sine wave, 1 cycle, $T_a=25^\circ\text{C}$							30
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	SR1							
				20	30	40	50	60	80	100	
Peak Forward Voltage	V_{FM}	V	$I_{FM} = 1.0\text{A}$	0.55			0.7		0.85		
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$						0.2	
	I_{RRM2}			$T_a=125^\circ\text{C}$						20	
Maximum reverse recovery time	T_{rr}	ns	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$								35
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient								50
Typical junction capacitance	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C								110

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

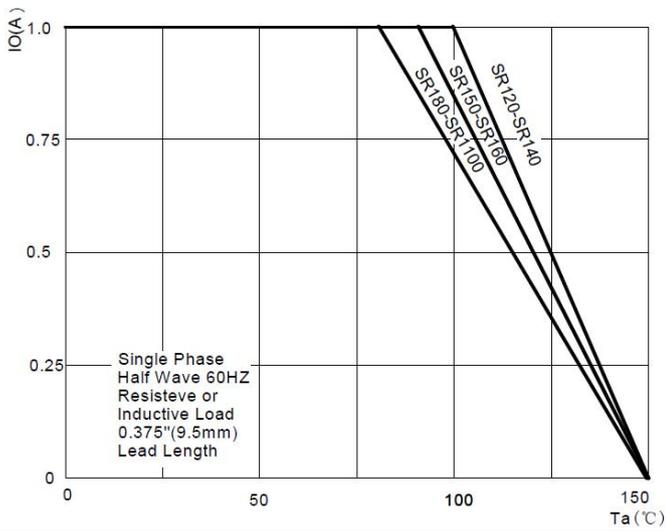


FIG2: Maximum Non-Repetitive Forward Surge

Current

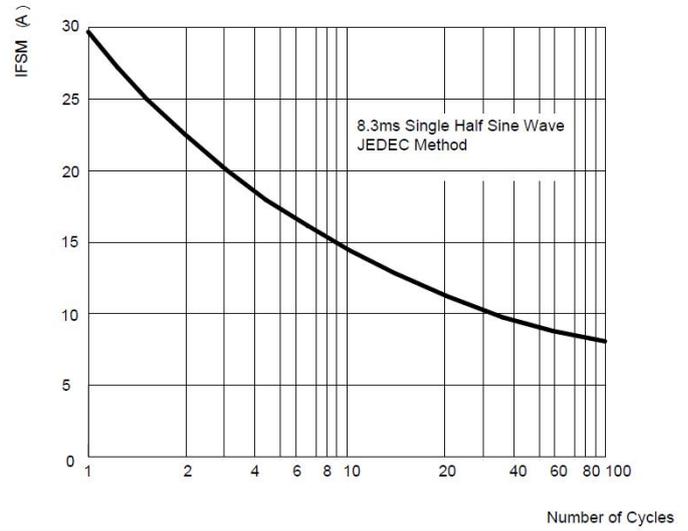


FIG3: Typical Forward Characteristics

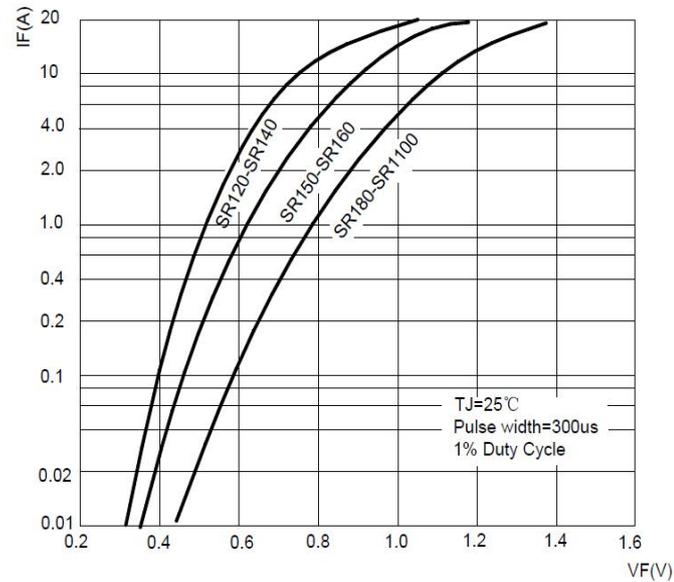
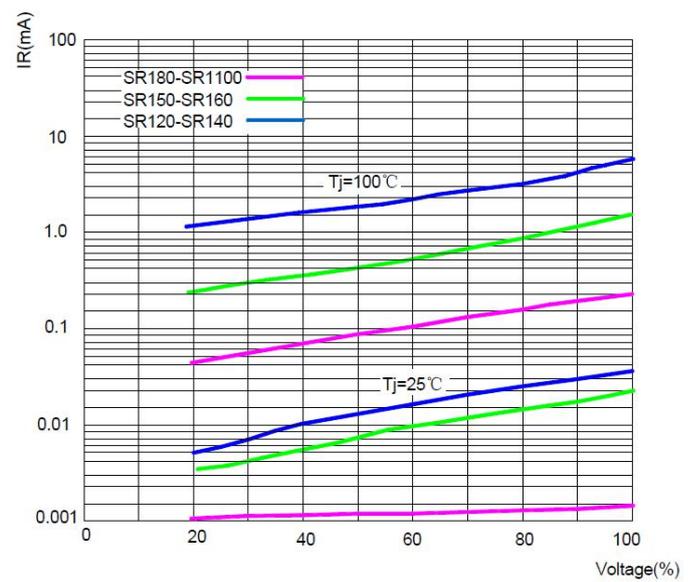


FIG4: Typical Reverse Characteristics

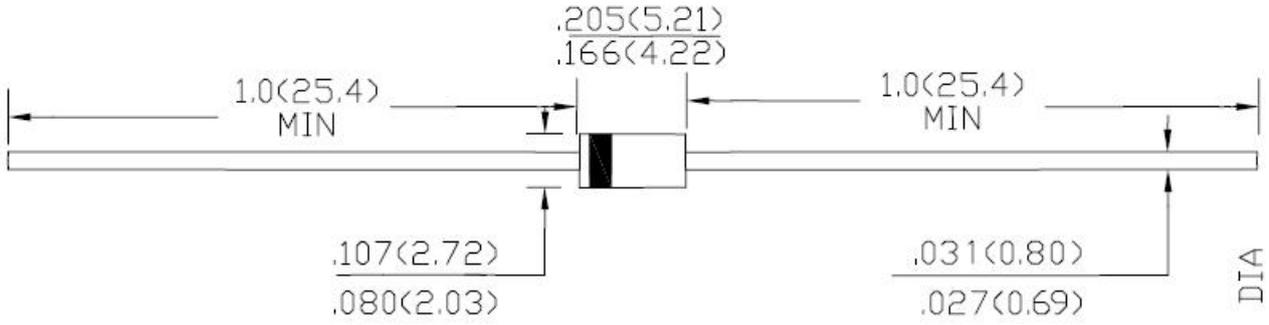


■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR120~SR1100	DO-204AL(DO-41)	5000	5000	50000	Tape

■ Outline Dimensions

DO -204AL(DO -41)



Unit: in inches (m illimeters)

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