

■ **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-204AC(DO-15)
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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR240L	SR260L	SR2100L
Device marking code			SR240L	SR260L	SR2100L
Repetitive Peak Reverse Voltage	V _{RRM}	V	40	60	100
Average Rectified Output Current @60Hz sine wave, Resistance load, T _a (FIG.1)	I _o	A	2.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	35		
Storage Temperature	T _{stg}	°C	-55 ~+150		
Junction Temperature	T _j	°C	-55 ~+125	-55 ~+150	

■ **ELECTRICAL CHARACTERISTICS** (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR240L	SR260L	SR2100L
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =2.0A	0.45	0.48	0.75
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	T _a =25°C	0.2		
			T _a =100°C	20		
Typical junction capacitance ⁽¹⁾	C _j	pF		120	110	80

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

■ **THERMAL CHARACTERISTICS** (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR240L	SR260L	SR2100L
Thermal Resistance	Junction to ambient	R _{θJ-A}	/W		
			45		

■ **PACKAGING INFORMATION**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR240L~SR2100L	D1	Approximate 0.38	3000	3000	30000	Tape
SR240L~SR2100L	C1	Approximate 0.38	500	500	25000	Bulk

■ **CHARACTERISTICS (TYPICAL)**

FIG.1: I_o-T_a Curve

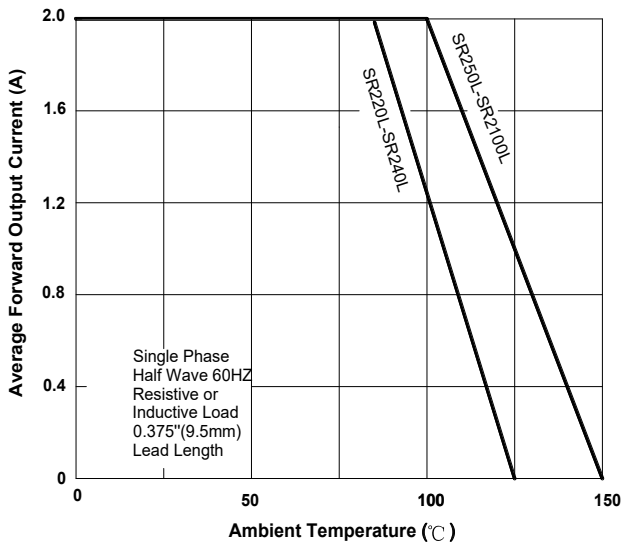


FIG.2: Forward Surge Current Capability

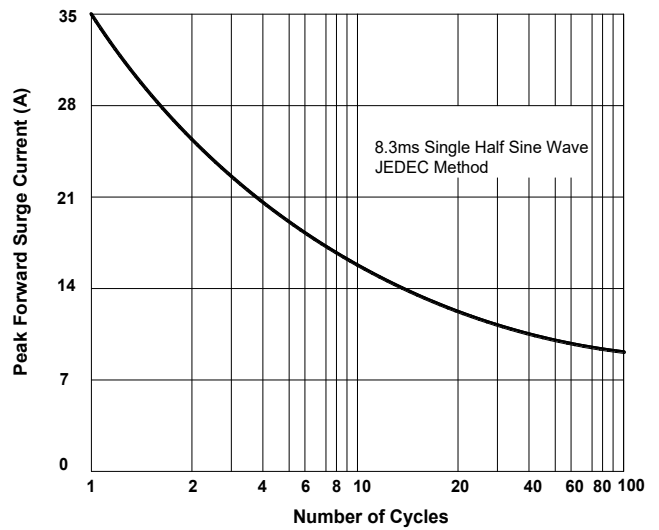


FIG.3: Forward Voltage

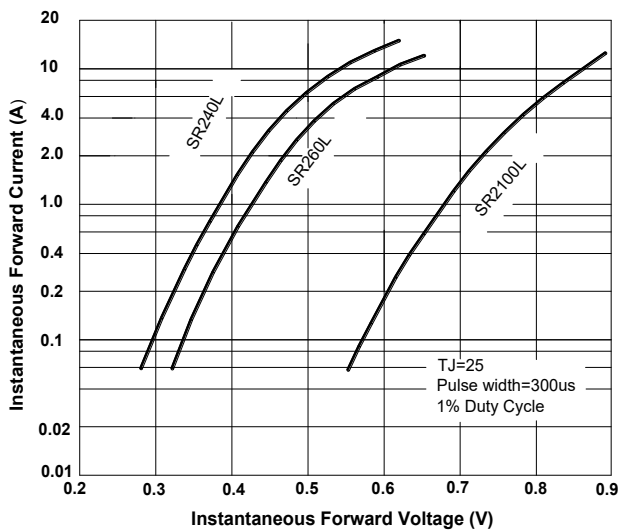
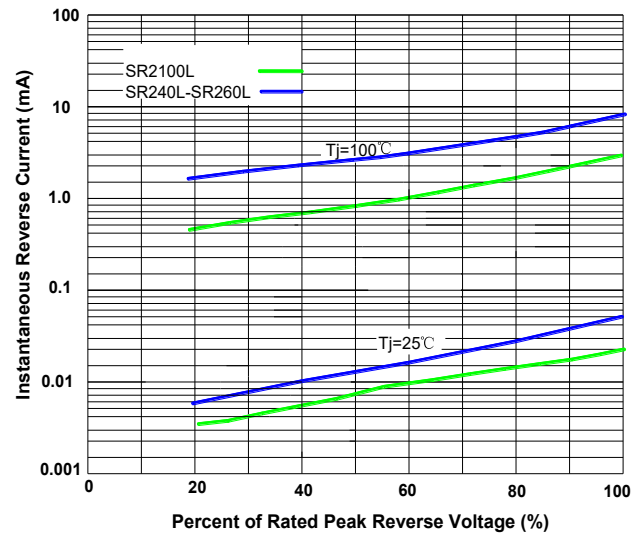
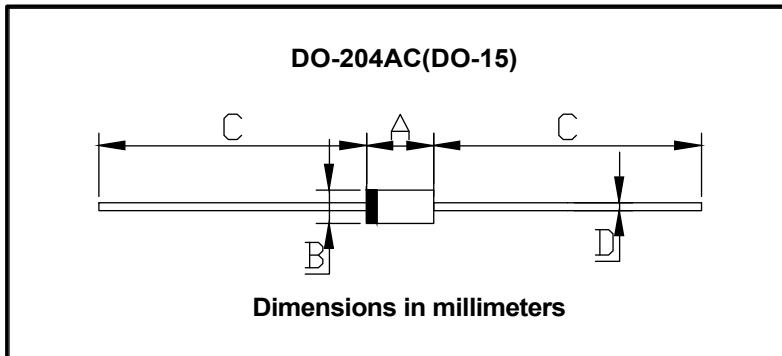


FIG.4: Typical Reverse Characteristics



■ **OUTLINE DIMENSIONS**



DO-204AC(DO-15)		
Dim	Min	Max
A	5.80	7.60
B	2.60	3.60
C	25.4	/
D	0.70	0.90