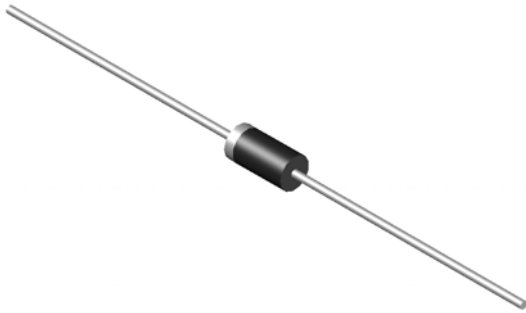


## Schottky Barrier Rectifier

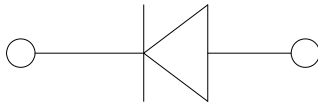


### Features

- 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 ( $T_a=25^\circ\text{C}$ 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, $T_a=25^\circ\text{C}$	$I_{FSM}$	A	35		
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	TEST CONDITIONS	SR240L	SR260L	SR2100L
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=2.0\text{A}$	0.45	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		
			$T_a=100^\circ\text{C}$	20		
Typical junction capacitance	$C_j$	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C	120	110	80

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



# SR240L THRU SR2100L

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

PARAMETER		SYMBOL	UNIT	SR240L	SR260L	SR2100L
Thermal Resistance	Junction to ambient	$R_{\theta J-A}$	$^\circ\text{C/W}$	45		

## ■ Ordering Information (Example)

PREFERED 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

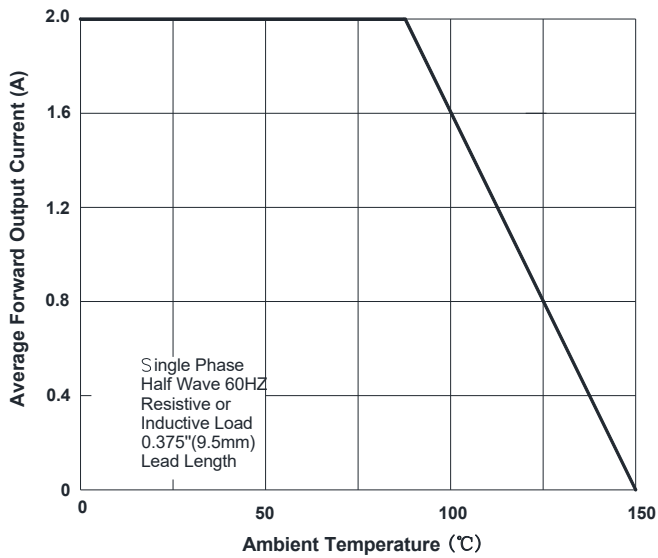


FIG.2: Forward Surge Current Capability

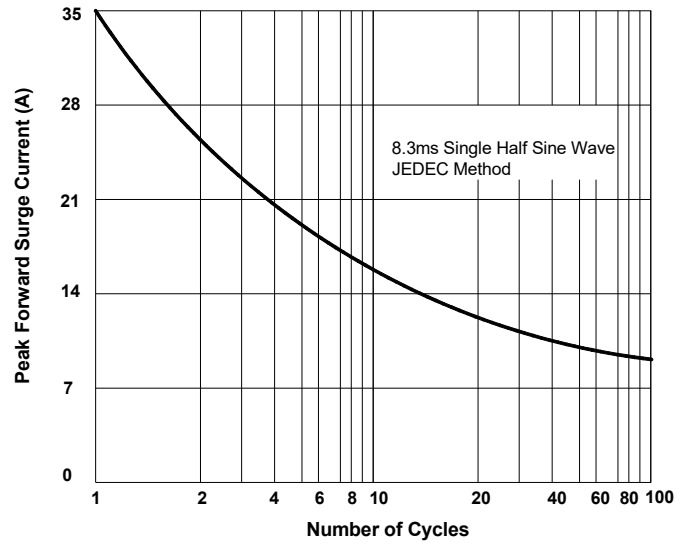


FIG.3: Forward Voltage

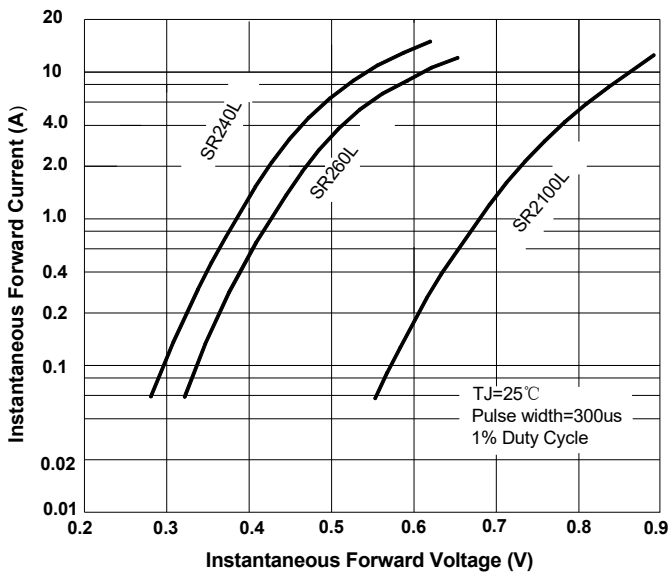
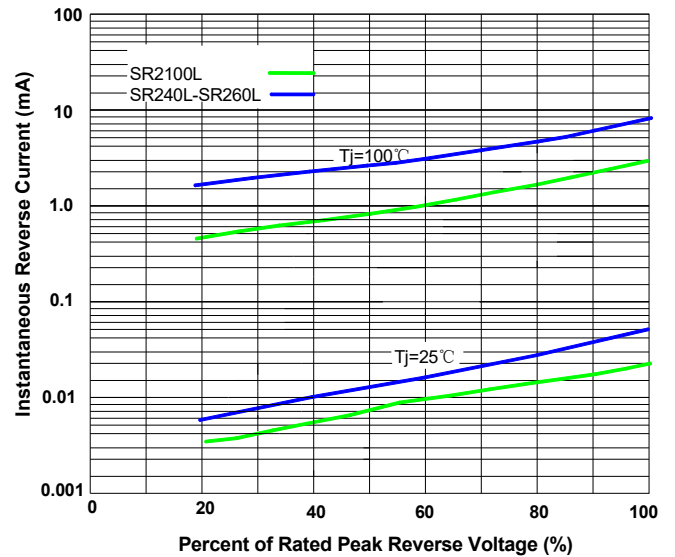


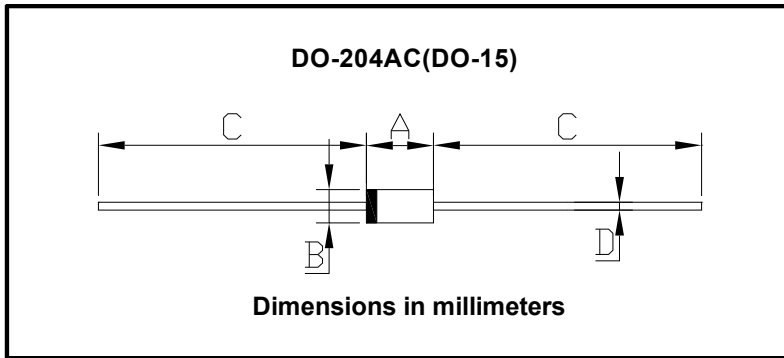
FIG.4: Typical Reverse Characteristics





# SR240L THRU SR2100L

## ■ Outline Dimensions



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



## SR240L THRU SR2100L

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