

#### Schottky Rectifier

#### **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



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	SR160L
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## SR160L



## Schottky Rectifier

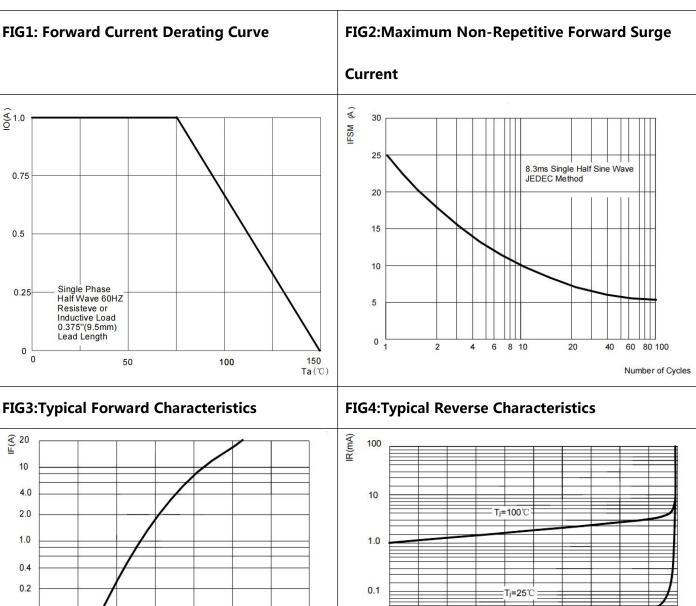
Repetitive Peak Reverse Voltage	VRRM	V		60
Average Rectified Output Current	I <sub>F(AV)</sub>	ι Δ	60HZ Half-sine wave, Resistance load, Ta=75℃	1.0
Surge(Nonrepetitive)Forward Current	İFSM	Α	60HZ sine wave, 1 cycle, Ta=25℃	25
Storage Temperature	Tstg	℃		-55 ~ <b>+</b> 150
Junction Temperature	Tj	°C		-55 ~ <b>+</b> 150

## **Electrical Characteristics (Ta=25°C Unless otherwise specified)**

PARAMETER	Symbol	Unit	Conditions		SR160L	
Peak Forward Voltage	VFM	V	I <sub>FM</sub> =1.0A		0.48	
Dook Doverso Current	I <sub>RRM1</sub>	- mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25℃	0.2	
eak Reverse Current	I <sub>RRM2</sub>			Ta=125℃	20	
Thermal Resistance(Typical)	<b>R</b> өJ-A		Between junction and ambient		50	
	RøJ-L	°C/W	Between junction and lead		15	
Typical junction capacitance	Cj	ηE	Measured at 1 MHZ and Applied		110	
	C)	pF	Reverse Voltage of 4.0 V.D.C		110	



#### ■ Characteristics ( Typical )



0.1

0.02

0.01

0.01

0.001

40

60

TJ=25℃ Pulse width=300us

0.7

0.5

0.4

0.6

1% Duty Cycle

0.8

0.9

100

120 Voltage(%)

# SR160L

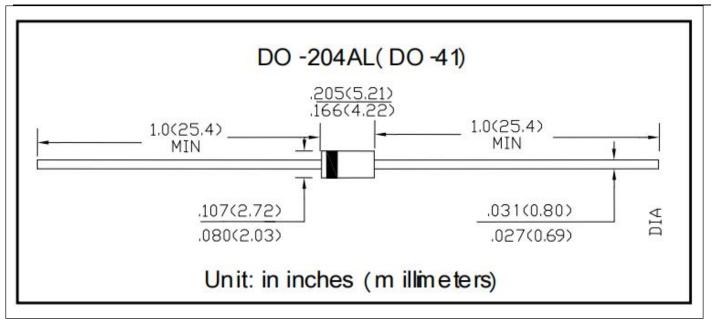


## ■ Ordering Information (Example)

PREFERED	FERED PACKAGE CODE		INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR160L	DO-204AL(DO-41)	5000	5000	50000	Таре

■ Outline Dimensions







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#### SR160L



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