

### Schottky Rectifier

#### **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
- AEC-Q101 qualified available
- Automotive product No.: base P/N-H

#### **Typical Application**

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.



- 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)

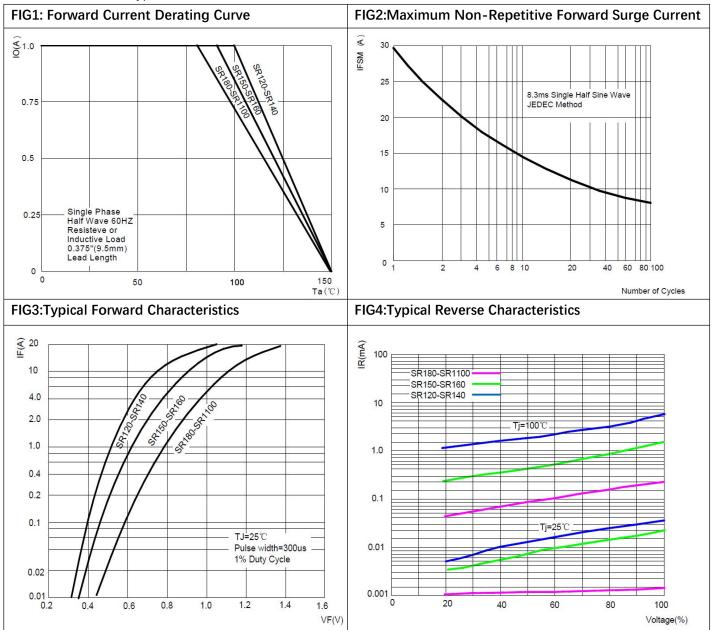
DADAMETED	Symbol	Unit	Conditions	SR1						
PARAMETER			Conditions	20	30	40	50	60	80	100
Repetitive Peak Reverse Voltage	VRRM	V		20	30	40	50	60	80	100
Average Forward Current	l <sub>F(AV)</sub>	А	60HZ Half-sine wave, Resistance load, Ta(FIG.1)	1.0						
Surge(Nonrepetitive)Forward Current	İFSM	Α	60HZ sine wave, 1 cycle, Ta=25°C	30						
Storage Temperature	Tstg	°C		-55 ~ <b>+</b> 150						
Junction Temperature	Tj	°C		-55 ~ +150						

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

PARAMETER	Cumbal	I I m i 4	Conditio					SR1				
PARAIVIETER	Symbol	Unit	Conditio	Conditions		30	40	50	60	80	100	
Peak Forward Voltage	VFM	V	I <sub>FM</sub> =1.0A		0.55		0.7		0.85			
Peak Reverse Current	IRRM1	m Λ	\( \( \) \( \)	Ta=25℃	0.2							
	IRRM2	mA mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=125℃	20							
Maximum reverse recovery time	Trr	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>rr</sub> =0.25A		35							
Thermal Resistance(Typical)	<b>R</b> өJ-A	°C/W	Between junction and ambient		50							
Typical junction capacitance	Cj	рF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		110							



#### ■ Characteristics (Typical)

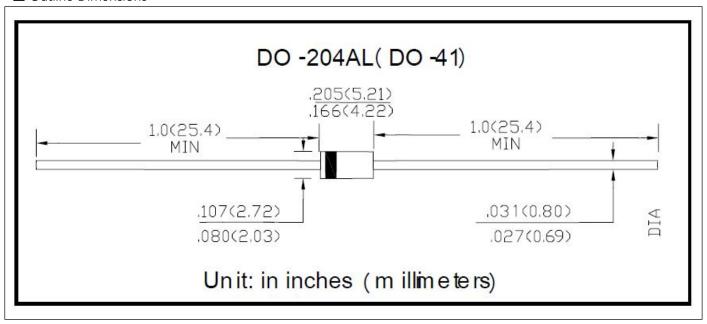




#### Ordering Information (Example)

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

#### ■ Outline Dimensions





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