

## **Super Fast Surface Mount Rectifiers**

### DO-204AL(DO-41)



Primary characteristics

 $I_{F(AV)}$  $V_{\mathsf{RRM}}$ 

 $I_{FSM}$ 

 $I_{RM}$ 

V<sub>FM</sub> at I<sub>F</sub>=1A

T<sub>J</sub> max.

#### **Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

## **Applications**

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

## Mechanical data

- DO-204AL(DO-41)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

# Maximum rating (Ta=25°C unless otherwise noted)

1A

50 to 1000 V

30A

5uA

0.95/1.3/1.7

150 °C

Parameter		C	DO-204AL(DO-41)									11
		Sym	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19	Unit
Max. repetitive peak reverse voltage		$V_{RRM}$	50	100	150	200	300	400	600	800	1000	٧
Max. RMS reverse voltage		V <sub>RMS</sub>	35	70	105	140	210	280	420	560	700	V
Max. DC blocking voltage		$V_{DC}$	50	100	150	200	300	400	600	800	1000	V
Max. average forward current			1								Α	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I <sub>FSM</sub>	30							А		
Max. instantaneous forward voltage drop per diode		V <sub>FM</sub>	0.95 1.3 1.7						V			
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C Ta=125 °C	I <sub>RM</sub>	5 100			μA						
Operating junction temperature		TJ	-55 ~ <b>+</b> 150								°C	
Storage temperature		T <sub>STG</sub>	-55 ~ <b>+</b> 150							°C		
Maximum reverse recovery time (Note1)		trr	35							nS		
Toward the amount manifest are a		R <sub>J-A</sub>	60							°C/W		
Typical thermal resistance	pical thermal resistance						20			°C/W		

#### Notes:

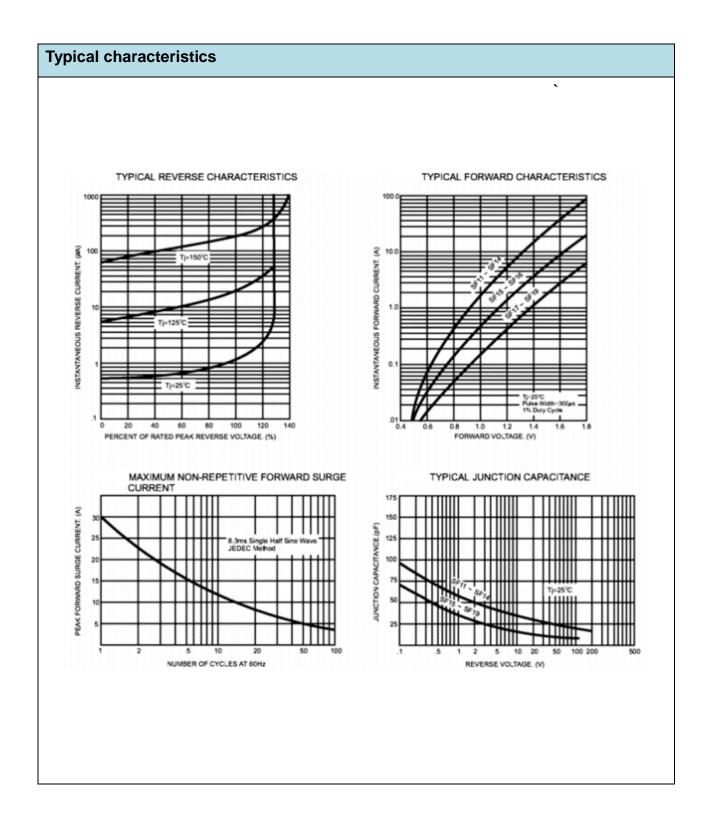
www.goldensemi.com.cn

<sup>1</sup> Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A



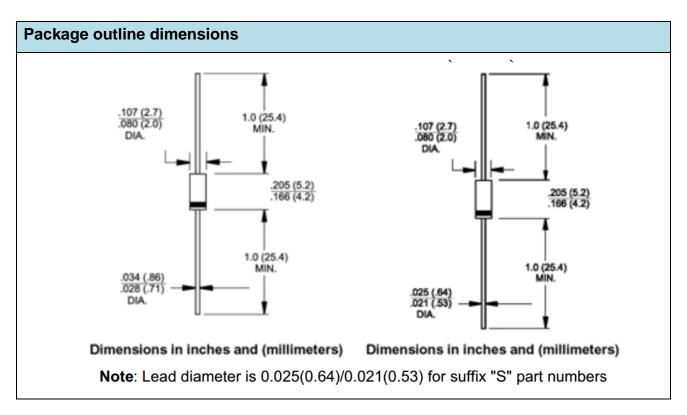
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Ordering information (Example)									
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE					
SF11									





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