



# 1N4001G THRU 1N4007G

## General Purpose Rectifier

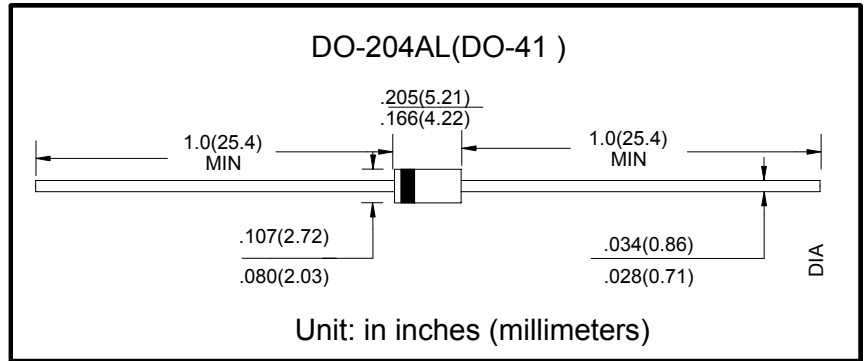
### Features

- $I_o$  1.0A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated junction

### Applications

- Rectifier

### Outline Dimensions and Mark



### Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	1N40						
				01G	02G	03G	04G	05G	06G	07G
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_a=75^\circ\text{C}$	1.0						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	30						
Junction Temperature	$T_J$	$^\circ\text{C}$		-55~+150						
Storage Temperature	$T_{STG}$	$^\circ\text{C}$		-55 ~ +150						

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

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=1.0A$	1.1	
Peak Reverse Current	$I_{RRM1}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	5
	$I_{RRM2}$			$T_a=125^\circ\text{C}$	50
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient	55	
	$R_{\theta J-L}$		Between junction and lead	25	

## ■ 特性曲线 (典型) Characteristics(Typical)

图1: 正向电流降额曲线  
FIG.1: FORWARD CURRENT DERATING CURVE

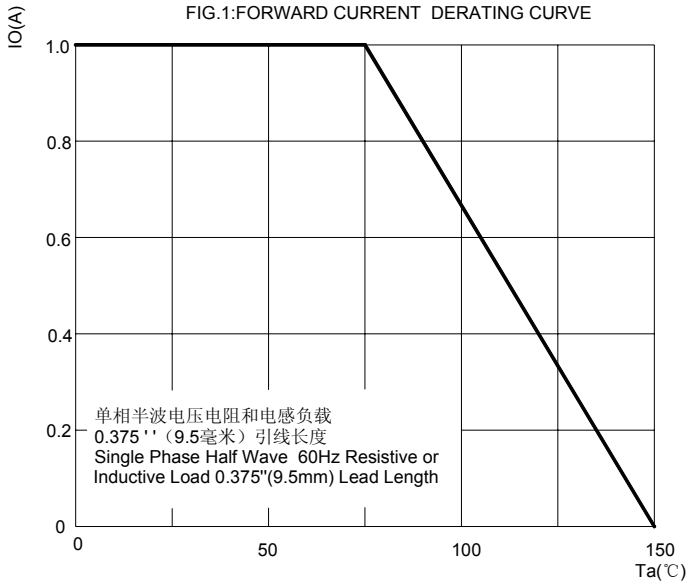


图2: 最大正向浪涌冲击耐受力  
FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

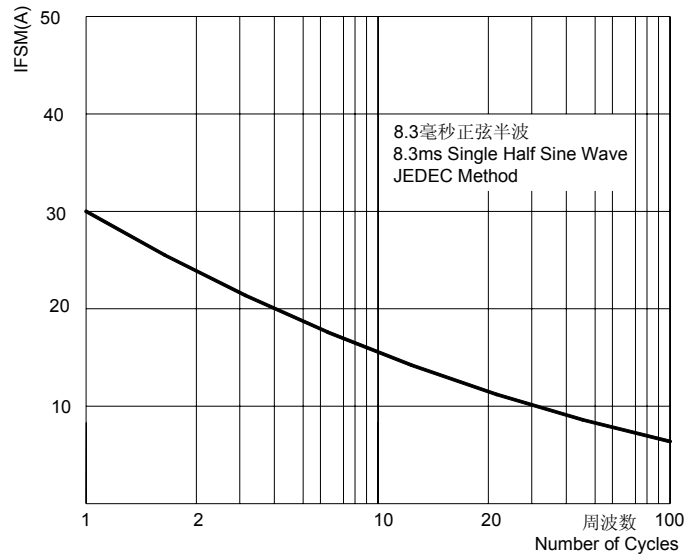


图3: 典型正向特性曲线  
FIG.3: TYPICAL FORWARD CHARACTERISTICS

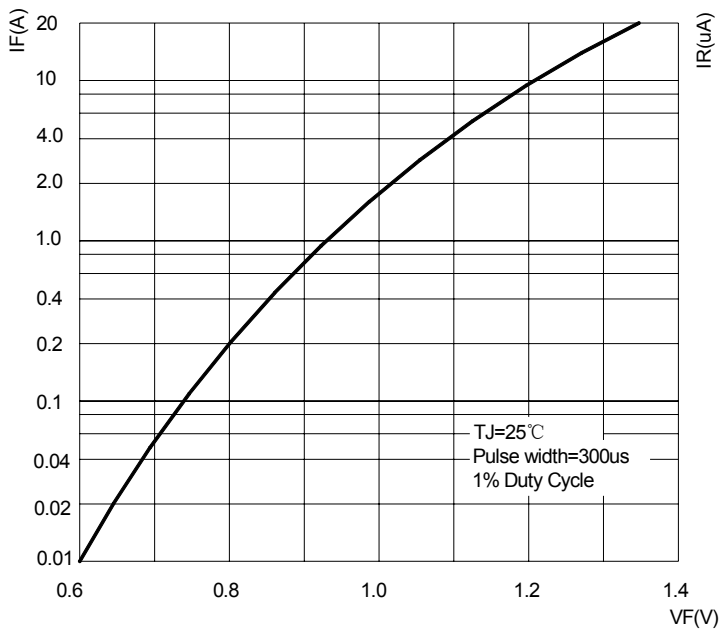


图4: 典型反向特性曲线  
FIG.4: TYPICAL REVERSE CHARACTERISTICS

