



**1N5400-1N5408 General Purpose Rectifier**

**Feature**

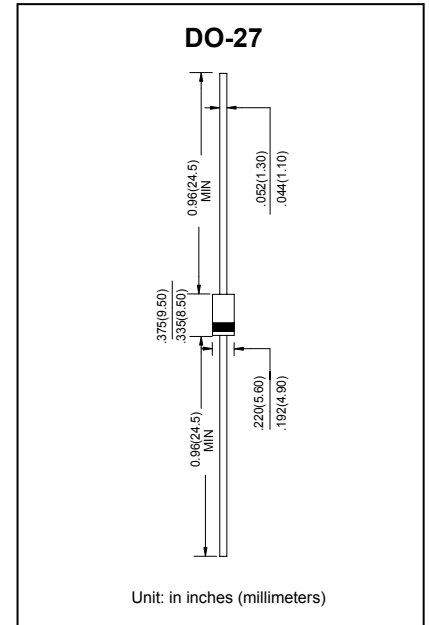
- $I_o$  3A
- $V_{RRM}$  50V-1000V
- Low reverse leakage
- High surge current capability

**Application**

- Rectifier

**Application**

- 1N540XX  
XX : From 00 To 08



**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$  unless otherwise noted)**

Parameter	Symbol	1N54										Unit
		00	01	02	03	04	05	06	07	08		
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	V	
Average Forward Current 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$	$I_{F(AV)}$	3									A	
Non-repetitive Peak Forward Surge Current 60Hz Half-sine wave ,1 cycle , $T_a =25^\circ\text{C}$	$I_{FSM}$	200									A	
Junction Temperature	$T_J$	-55 ~ +125									$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-55 ~ +150									$^\circ\text{C}$	

**ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$  unless otherwise noted)**

Parameter	Symbol	Test Condition	Max	Unit
Peak Forward voltage	$V_{FM}$	$I_{FM}=3A$	1.1	V
Peak Reverse Current	$I_{RRM1}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	5
	$I_{RRM2}$		$T_a=125^\circ\text{C}$	50
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient	20	$^\circ\text{C}/\text{W}$
	$R_{\theta J-L}$	Between junction and lead	10	$^\circ\text{C}/\text{W}$

## Typical Characteristics

FIG.1 : FORWARD CURRENT DERATING CURVE

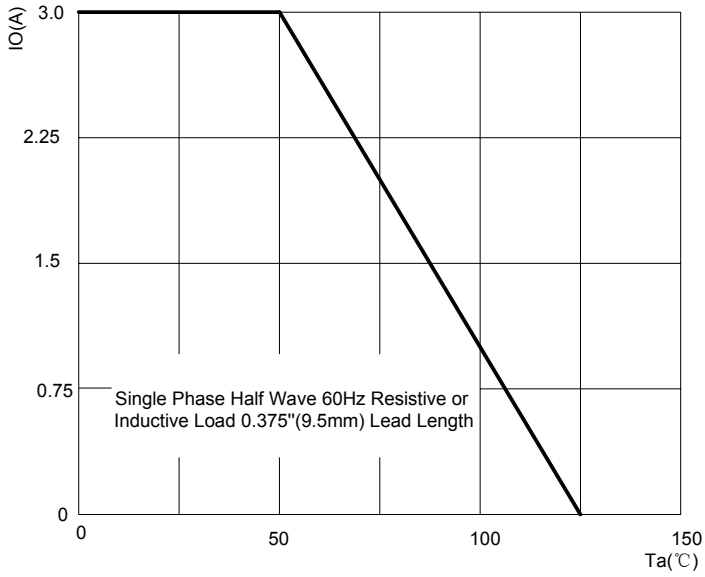


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

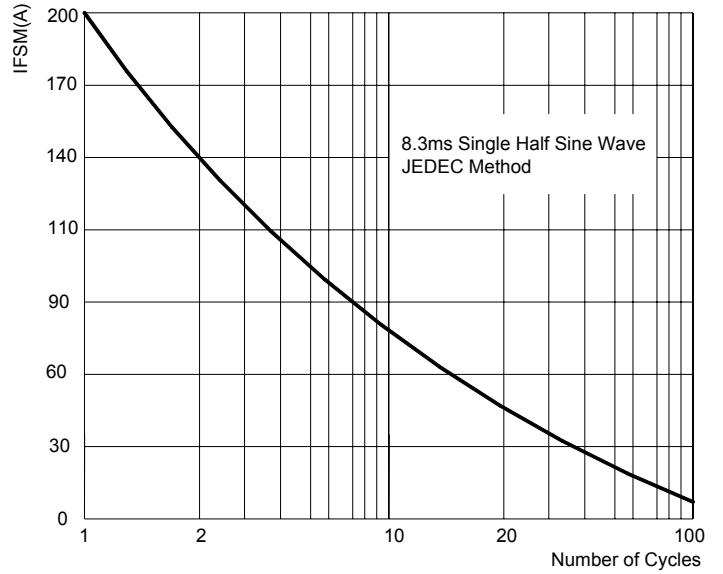


FIG.3: TYPICAL FORWARD CHARACTERISTICS

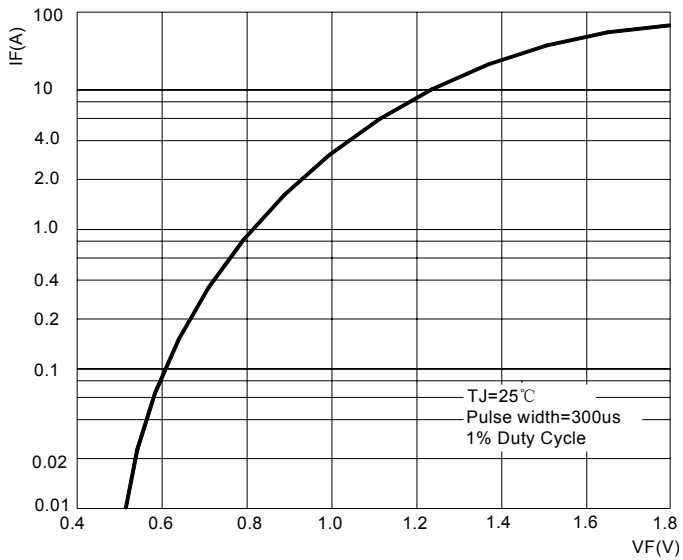


FIG.4: TYPICAL REVERSE CHARACTERISTICS

