

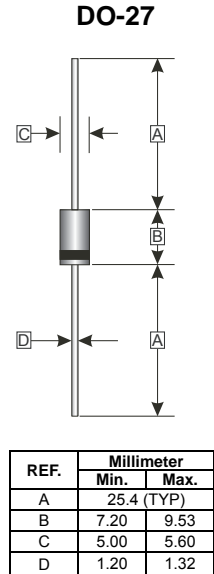
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Glass passivated junction

**MECHANICAL DATA**

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.10 grams (approximately)



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

PARAMETERS	SYMBOL	PART NUMBERS							UNITS	TESTING CONDITIONS
		1N 5400 G	1N 5401 G	1N 5402 G	1N 5404 G	1N 5406 G	1N 5407 G	1N 5408 G		
Recurrent Reverse Voltage (Max.)	$V_{RRM}$	50	100	200	400	600	800	1000	V	
RMS Voltage (Max.)	$V_{RMS}$	35	70	140	280	420	560	700	V	
DC Blocking Voltage (Max.)	$V_{DC}$	50	100	200	400	600	800	1000	V	
Instantaneous Forward Voltage(Max.)	$V_F$	1.1							V	$I_F = 3A$
Average Forward Rectified Current (Max.)	$I_O$	3.0							A	0.375" (9.5mm) lead length @ $T_A = 75^\circ C$
Peak Forward Surge Current	$I_{FSM}$	150							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
DC Reverse Current at Rated DC Blocking Voltage (Max.)	$I_R$	5.0							$\mu A$	$T_A = 25^\circ C$
		50								$T_A = 100^\circ C$
Typical Thermal Resistance Junction-Ambient <sup>2</sup>	$R_{\theta JA}$	30							$^\circ C / W$	
Typical Junction Capacitance <sup>1</sup>	$C_J$	40							pF	
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 ~ 150							$^\circ C$	

Notes :

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

**RATINGS AND CHARACTERISTIC CURVES (1N5400G THRU 1N5408G)**

FIG.1-TYPICAL FORWARD CHARACTERISTICS

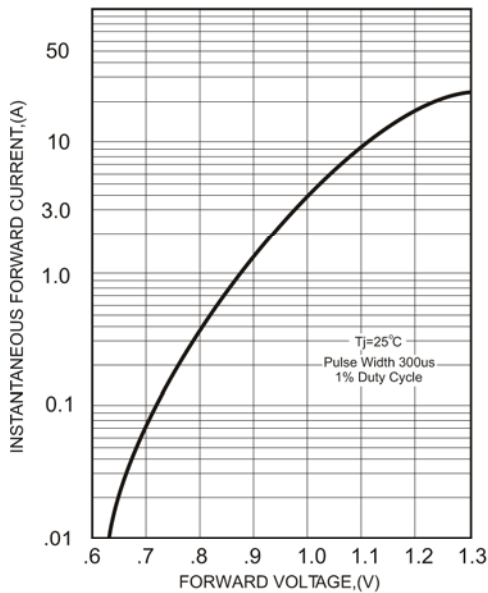


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

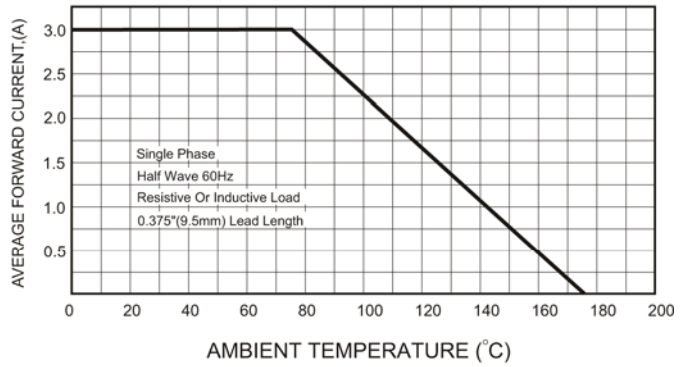


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

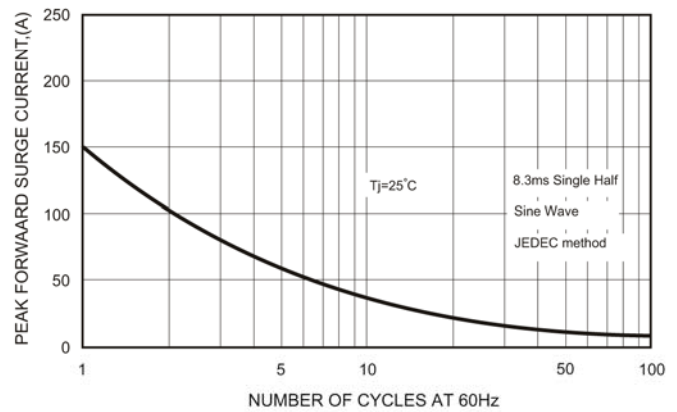


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

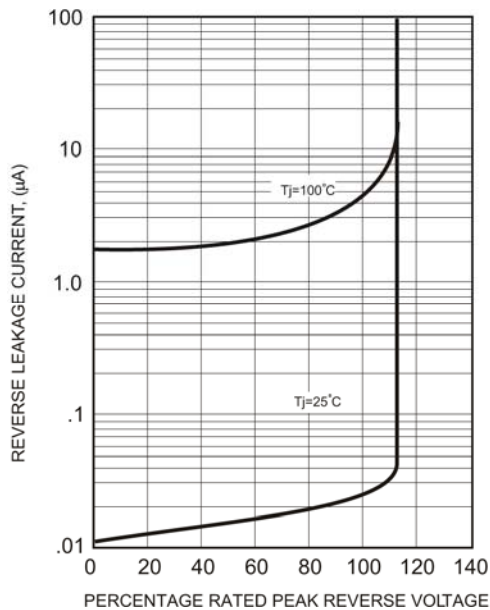


FIG.5-TYPICAL JUNCTION CAPACITANCE

