

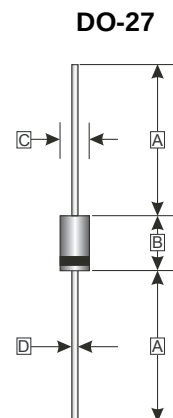
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	5.00	5.60
D	1.20	1.32

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°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							μA	T _A =25°C
		50								T _A =100°C
Typical Thermal Resistance Junction-Ambient ²	R _{θJA}	30							°C / W	
Typical Junction Capacitance ¹	C _J	40							pF	
Operating and Storage Temperature Range	T _J , T _{STG}	-65 ~ 150							°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

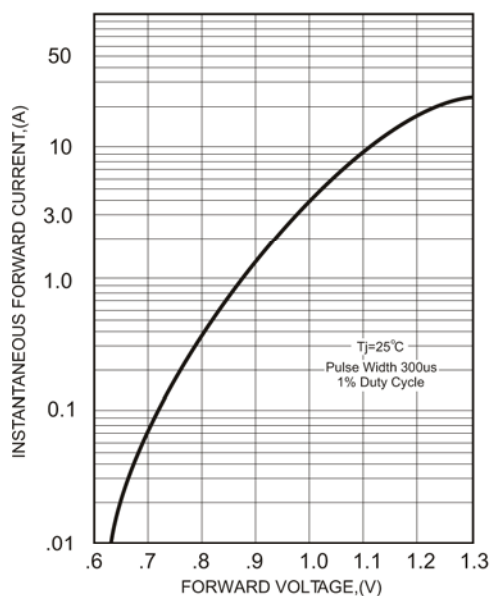


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

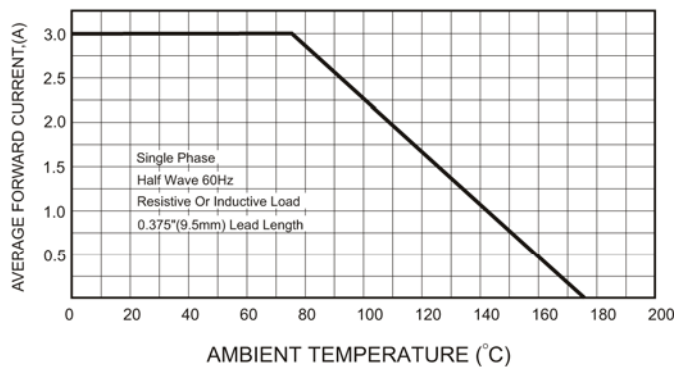


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

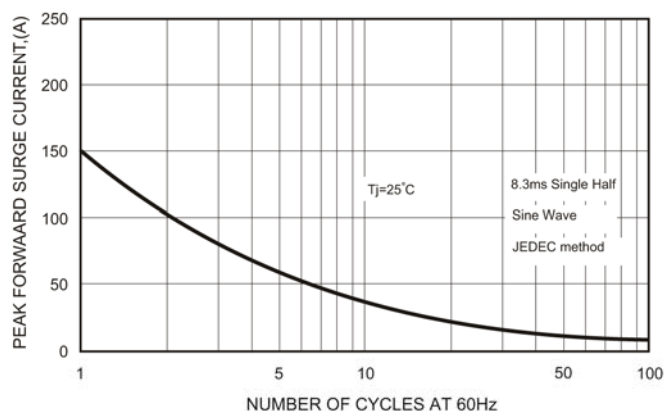


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

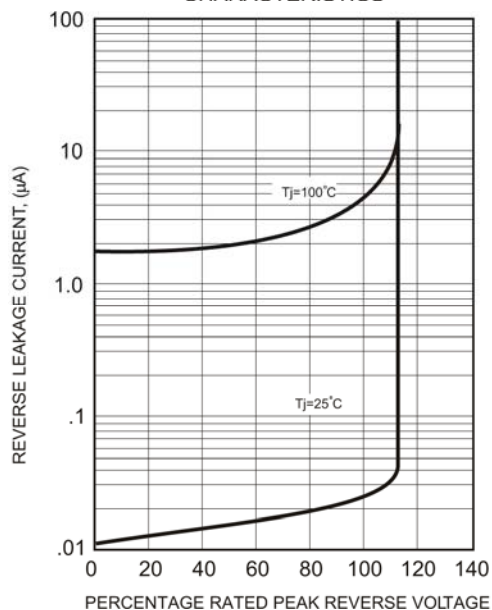


FIG.5-TYPICAL JUNCTION CAPACITANCE

