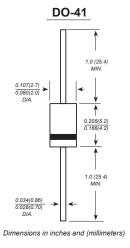


1N4942G THRU 1N4948G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 200 to 1000 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
- 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

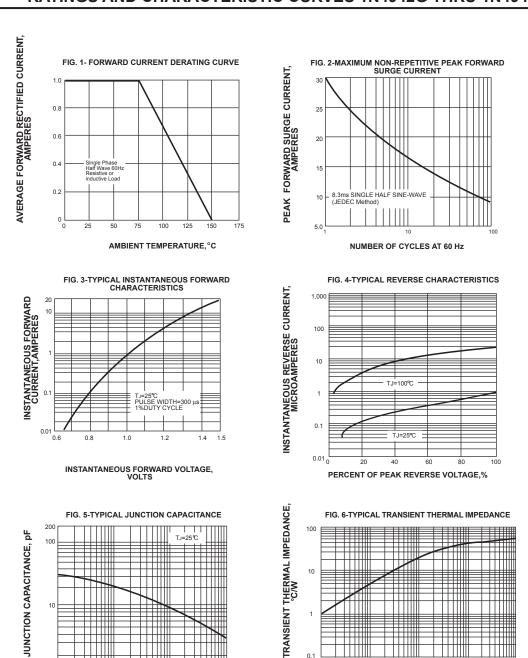
	SYMBOLS	1N 4942G	1N 4944G	1N 4946G	1N 4947G	1N 4948G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	long	I(AV) 1.0					Amp
0.375″(9.5mm) lead length at Ta=75℃	I(AV)						
Peak forward surge current							
8.3ms single half sine-wave superimposed on	IFSM	IFSM 30.0					
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	VF	1.3					Volts
Maximum DC reverse current Ta=25°C		5.0 50.0					μА
at rated DC blocking voltage Ta=100℃	IR						
Maximum reverse recovery time (NOTE 1)	trr		150 250 500		500	ns	
Typical junction capacitance (NOTE 2)	Cı	15.0					pF
Typical thermal resistance (NOTE 3)	RθJA	50.0					°C/W
Operating junction and storage temperature range	Тл,Твтс	-65 to +150					°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES 1N4942G THRU 1N4948G



1 ___

1.0

10

REVERSE VOLTAGE, VOLTS

100

0.1 ___

t,PULSE DURATION,sec.