

FAST RECOVERY GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 200 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

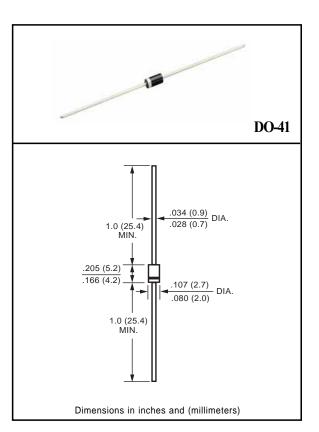
- * High reliability
- * Low leakage
- * Low forward voltage drop
- * Glass passivated junction
- * High switch capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.35 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1N4942G	1N4944G	1N4946G	1N4947G	1N4948G	UNITS
Maximum Recurrent 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 at TA = 55°C	lo		Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	Ifsm	30					
Typical Junction Capacitance (Note 2)	CJ		pF				
Operating and Storage Temperature Range	TJ, TSTG		٥C				

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	1N4942G	1N4944G	1N4946G	1N4947G	1N4948G	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	Vf		Volts				
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0					uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at T∟ = 55°C	IR IR	100					uAmps
Maximum Reverse Recovery Time (Note 1)	trr	1:	50	2	50	500	nSec
NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A							2002-

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (1N4942G THRU 1N4948G)

