



## FAST RECOVERY RECTIFIER

VOLTAGE RANGE 200 to 1000 Volts CURRENT 1.0 Ampere

### FEATURES

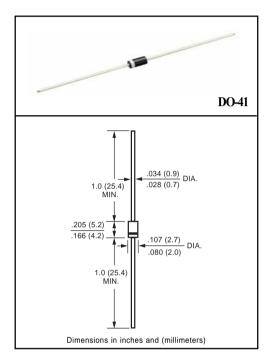
- \* High switching capability
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High surge current capability

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.33 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)

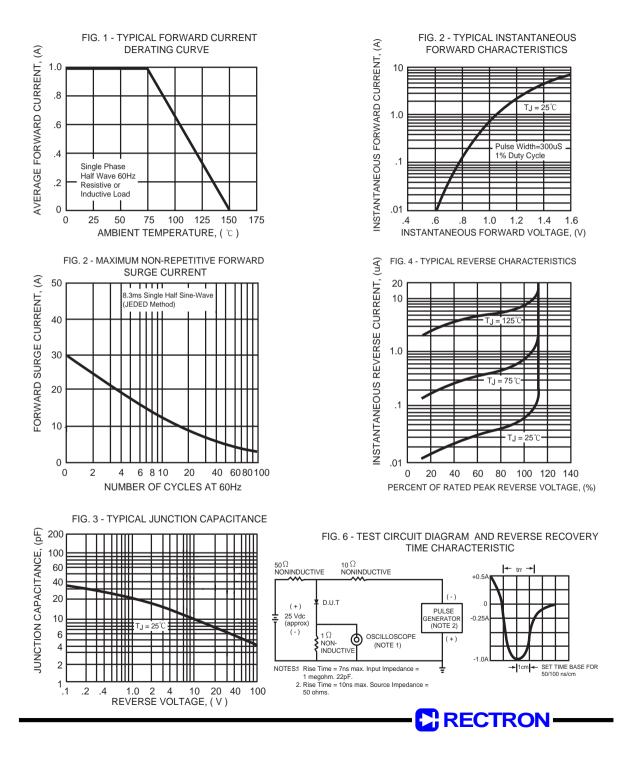
RATINGS	SYMBOL	1N4942	1N4944	1N4946	1N4947	1N4948	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo		Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps				
Typical Junction Capacitance (Note 2)	CJ		pF				
Operating and Storage Temperature Range	TJ, TSTG		°C				

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

CHARACTERISTICS	SYMBOL	1N4942	1N4944	1N4946	1N4947	1N4948	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3					
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 TL = 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

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



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