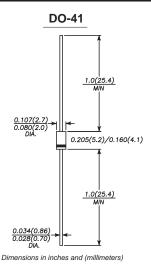
1N4942 THRU 1N4948

FAST RECOVERY 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: 260°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 4942	1N 4944	1N 4946	1N 4947	1N 4948	UNITS
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	200	400	600	800	1000	V
Maximum average forward rectified current	I(AV)	1.0					A
0.375"(9.5mm) lead length at Ta=75℃	I(AV)	1.0					
Peak forward surge current							
8.3ms single half sine-wave superimposed on	IFSM 30.0					Α	
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	VF	1.3					V
Maximum DC reverse current Ta=25℃			5.0				μА
at rated DC blocking voltage Ta=100℃	lR	IR 50.0					μΛ
Maximum reverse recovery time (NOTE 1)	trr		150	2	250	500	ns
Typical junction capacitance (NOTE 2)	Сл	15.0					pF
Typical thermal resistance (NOTE 3)	Reja	50.0					°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150					°C

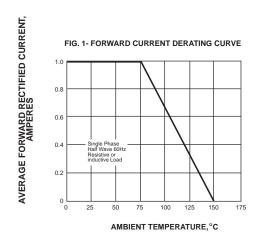
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

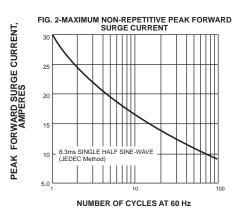
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

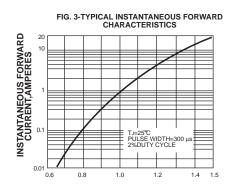
3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

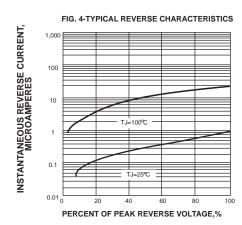


RATINGS AND CHARACTERISTIC CURVES 1N4942 THRU 1N4948

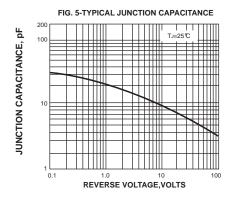


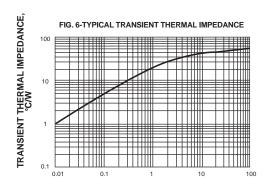












t,PULSE DURATION,sec.

