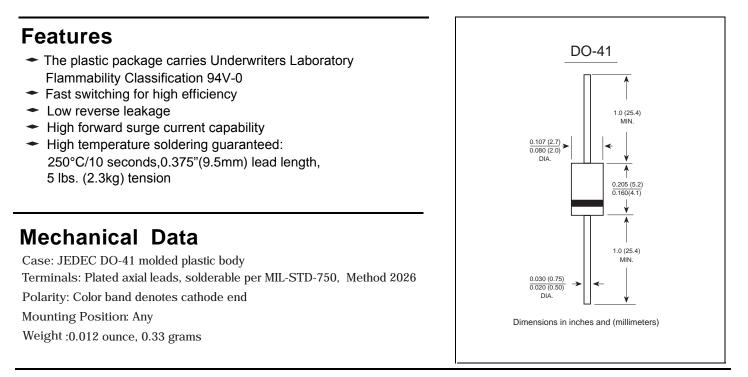
Shanghai Sinble Electronics Co.,Ltd

1N4942~1N4948 1.0Amp Fast Recovery Rectifiers



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	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 0.375" (9.5mm) lead length at TA=75 $^{\circ}$ C	I(AV)	1.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3					Volts
Maximum DC reverse currentTA=25℃at rated DC blocking voltageTA=100℃	Ir	5.0 50.0					μΑ
Maximum reverse recovery time (NOTE 1)	trr	1	50	250		500	ns
Typical junction capacitance (NOTE 2)	CJ	15.0					pF
Typical thermal resistance (NOTE 3)	RθJA	50.0					°C/W
Operating junction and storage temperature range	TJ,TSTG	-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