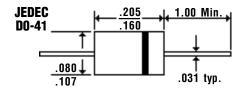


Mechanical Dimensions



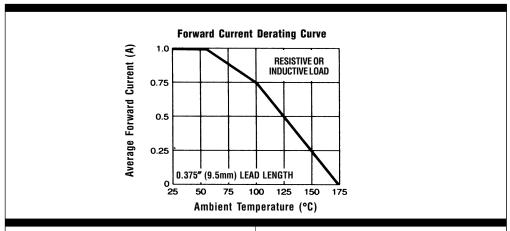
Features

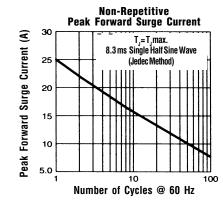
- HIGH TEMPERATURE METALLURGI-CALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 1.0 AMP OPERATION @ T_A = 55°C, WITH NO THERMAL RUNAWAY
- TYPICAL I_R < 0.1 µAmp

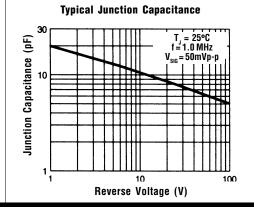
Maximum Ratings	1N4942GP 48GP Series					Unit
	1N4942GP	1N4944GP	1N4946GP	1N4947GP	1N4948GP	
Peak Repetitive Reverse VoltageV _{RRM}	200	400	600	800	1000	Volt
RMS Reverse VoltageV _{R(rms)}	140	280	420	560	700	Volt
DC Blocking Voltage $V_{\rm DC}$	200	400	600	800	1000	Volt
Average Forward Rectified CurrentI _{F(av)} 3/8" Lead Length @ T _A = 55°C			1.0			Amp
Non-Repetitive Peak Forward Surge CurrentI _{FSM} 8.3ms, ½ Sine Wave Superimposed on Rated Load			25			Amp
Operating & Storage Temperature Range T_J , T_{STRI}	G		65 to 175			°C
Electrical Characteristics						
Maximum Forward Voltage @ 1.0AV _F			1.3			Volt
			5.0 100			μAm μAm
Typical Junction CapacitanceC _J (Note 1)			15			рF
Typical Thermal ResistanceR _{eJA} (Note 2)			55			°C/V
Maximum Reverse Recovery Timet _{RR} (Note 3)	<	. 150	< 2	50>	< 500 >	ns

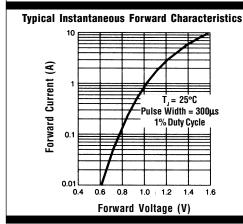


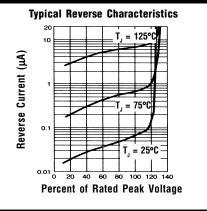
1.0 Amp FAST SWITCHING MEGARECTIFIERS











Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

NOTES: 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.

2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.

3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.