1N4942 THRU 1N4948

FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.0A

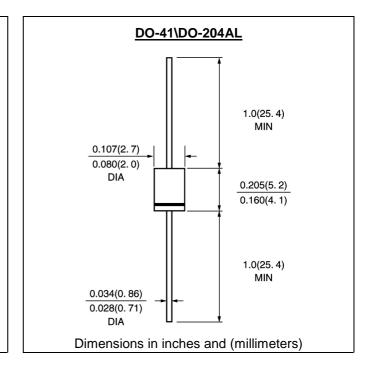


FEATURE

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension Fast switching for high efficiency

MECHANICAL DATA

Terminal:Plated axial leads solderable per
MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	1N	1N	1N	1N	1N	units
		4942	4944	4946	4947	4948	
Maximum Recurrent 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 3/8"lead length at Ta =75°C	If(av)	1.0					А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	25.0					Α
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3					٧
 Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage 	lr	5.0					μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150		250	500		nS
Typical Junction Capacitance (Note 2)	Cj	15.0					pF
Typical Thermal Resistance (Note 3)	R(ja)	50.0					°C/W
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +150					°C

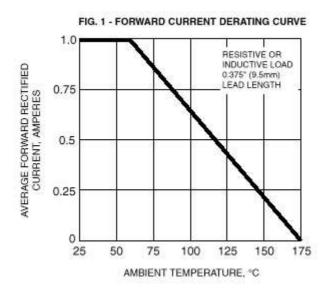
Note:

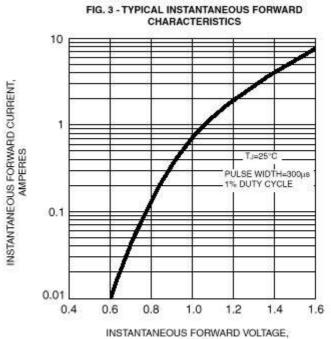
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted¹

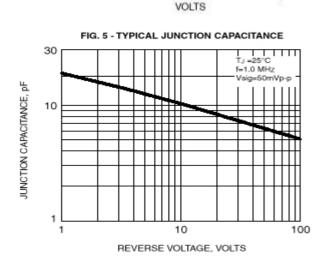
¹ Rev.A4 www.gulfsemi.com

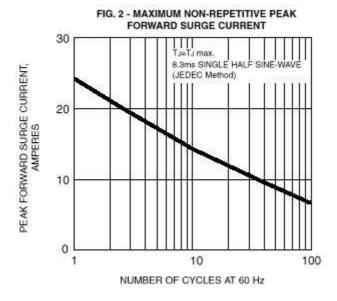
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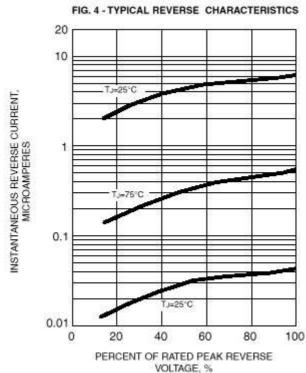
RATINGS AND CHARACTERISTIC CURVES 1N4942 THRU 1N4948











² Rev.A4 www.gulfsemi.com

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