
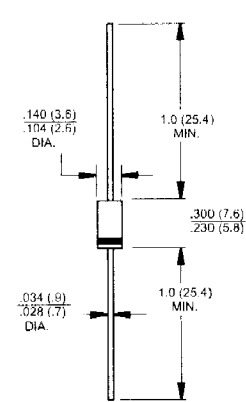


GP15A THRU GP15M

1.5 AMPS. Glass Passivated Junction Plastic Rectifiers

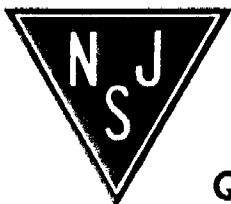
	Voltage Range 50 to 1000 Volts Current 1.5 Amperes
Features <ul style="list-style-type: none"> ✦ High temperature metallurgically bonded construction ✦ Plastic material used carries Underwriters Laboratory Classification 94V-0 ✦ Glass passivated cavity-free junction ✦ Capable of meeting environmental standards of MIL-S-19500 ✦ 1.5 amperes operation at $T_A=55^\circ\text{C}$ and with no thermal runaway ✦ Typical I_R less than 0.1 μA ✦ High temperature soldering guaranteed: $350^\circ\text{C} / 10$ seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension 	DO-15 
Mechanical Data <ul style="list-style-type: none"> ✦ Case: JEDEC DO-15 molded plastic over glass body ✦ Lead: Plated axial leads, solderable per MIL-STD-750, Method 2026 ✦ Polarity: Color band denotes cathode end ✦ Mounting position: Any ✦ Weight: 0.015 ounce, 0.4 gram 	Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	GP 15A	GP 15B	GP 15D	GP 15G	GP 15J	GP 15K	GP 15M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A=55^\circ\text{C}$	$I_{(AV)}$	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @1.5A	V_F	1.1							V
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @ $T_A=55^\circ\text{C}$	HT_{IR}	100							μA
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=150^\circ\text{C}$	I_R	5.0 200							μA μA
Typical Junction Capacitance (Note 1)	C_j	15.0							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60							$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 175							$^\circ\text{C}$

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
2. Mount on Cu-Pad Size 10mm x 10mm on P.C.B..



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