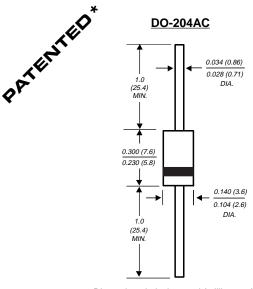
GP15A THRU GP15M

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5 Amperes



Dimensions in inches and (millimeters)

* Glass-plastic encapsulation technique is covered by
Patent No. 3,996,602 and brazed-lead assembly by Patent No. 3,930,306



FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ 1.5 Ampere operation at T_A=55°C with no thermal runaway
- Typical I_R less than 0.1μA
- High temperature soldering guaranteed: 350°C/10 seconds 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AC molded plastic over glass body **Terminals:** 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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GP 15A	GP 15B	GP 15D	GP 15G	GP 15J	GP 15K	GP 15M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I(AV)	1.5						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0						Amps	
Maximum instantaneous forward voltage at 1.5A	VF	1.1						Volts	
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length atT _A =55°C	I _R (AV)	100.0						μА	
Maximum reverse current TA= 25°C at rated DC blocking voltage TA=150°C	lr	5.0 200.0						μА	
Typical reverse recovery time (NOTE 1)	t _{rr}	2.0						μs	
Typical junction capacitance (NOTE 2)	CJ	15.0						pF	
Typical thermal resistance (NOTE 3)	R⊕ja R⊕jl	45.0 20.0						°C/W	
Operating junction and storage temperature range	TJ, TSTG	-65 to +175						°C	

NOTES

- (1) Reverse recovery conditions: IF=0.5A, IR=1.0A, Irr=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES GP15A THRU GP15M

