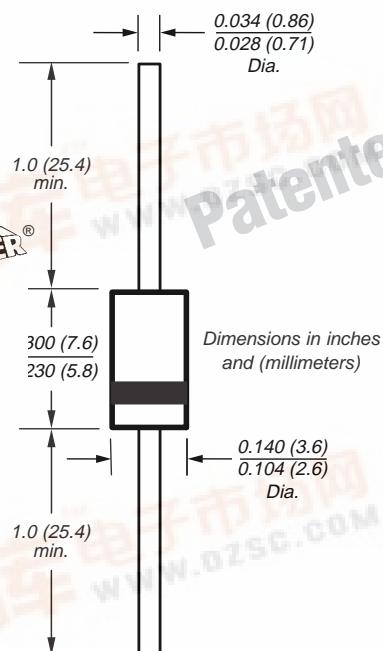




查询AGP15供应商

捷多邦，专业PCB打样工厂，24小时加急出货

AGP15 SeriesVishay Semiconductors
formerly General Semiconductor**Miniature Glass Passivated Junction
Plastic Controlled Avalanche Rectifiers**DO-204AC
(DO-15)**SUPERRECTIFIER®**

*Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 of 1976; brazed-lead assembly by Patent No. 3,930,306 of 1976 and glass composition by Patent No. 3,752,701 of 1973

Reverse Voltage
400 to 800V

Forward Current 1.5A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temp. metallurgically bonded constructed rectifiers
- Controlled Avalanche characteristic combined with the ability to dissipate reverse power
- Glass passivated cavity-free junction in DO-15 package
- 1.5 Ampere operation at TA=55°C with no thermal runaway
- Typical IR less than 0.1μA
- Capable of meeting environmental standards of MIL-S-19500
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data**Case:** Molded plastic over glass**Terminals:** Plated axial leads, solderable per MIL-STD-202, Method 208**Polarity:** Color band denotes cathode end**Mounting Position:** Any**Weight:** 0.0154 oz., 0.4 g**Maximum Ratings & Thermal Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	AGP15-400	AGP15-600	AGP15-800	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	800	V
Maximum RMS voltage	V _{RMS}	280	420	560	V
Maximum DC blocking voltage	V _{DC}	400	600	800	V
Maximum Peak Power Dissipation in the Avalanche Region 20 μs Pulse	P _{RM}		500		W
Max. Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths at T _A = 55°C	I _{AV}		1.5		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		50		A
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at T _A = 55°C	I _{R(AV)}		100		μA
Typical thermal resistance (Note 1)	R _{θJA}		25		°C/W
Operating and storage temperature range	T _J , T _{STG}		-65 to +175		°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Minimum Avalanche Breakdown Voltage at 100μA	V _{BR}	450	675	880	V
Maximum Avalanche Breakdown Voltage at 100μA	V _{BR}	750	1000	1200	V
Maximum instantaneous forward voltage at 1.5A	V _F		1.1		V
Maximum reverse current at rated DC blocking voltage	I _R		5.0		μA
Typical reverse recovery time I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}		2.0		μs
Typical junction capacitance at 4.0V, 1MHz	C _J		15		pF

Note: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. Board mounted



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Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 – Maximum Forward Current Derating Curve

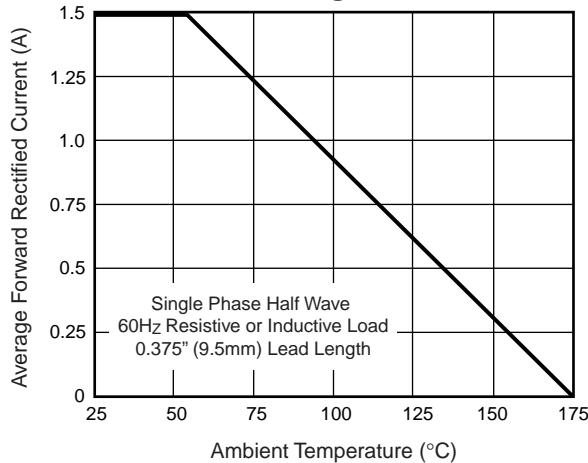


Fig. 2 – Typical Instantaneous Forward Characteristics

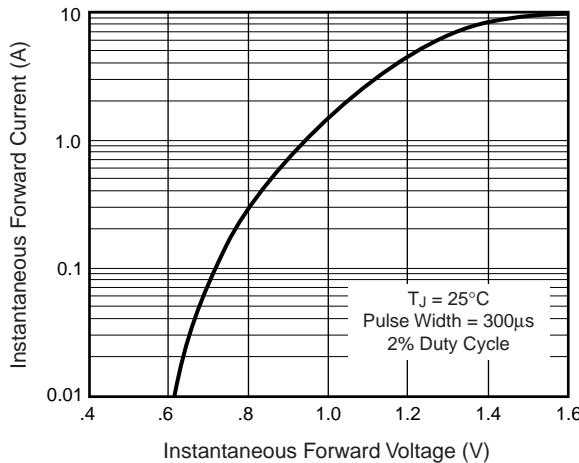


Fig. 3 – Maximum Non-Repetitive Peak Forward Surge Current

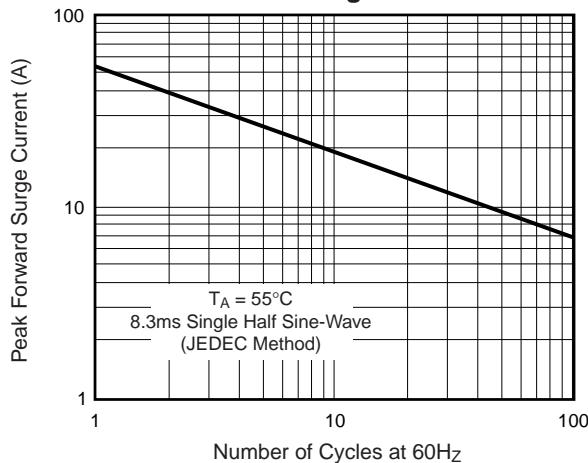


Fig. 4 – Typical Reverse Leakage Characteristics

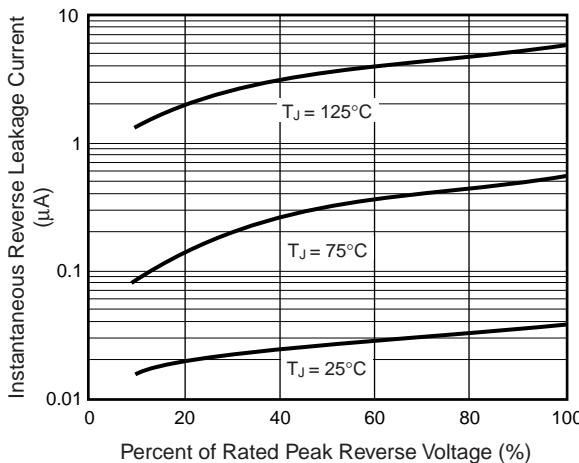


Fig. 5 – Maximum Non-Repetitive Reverse Avalanche Power Dissipation

