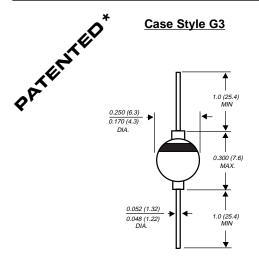
BY228 SERIES

CLAMPER / DAMPER GLASS PASSIVATED RECTIFIER

Reverse Voltage - 1500 Volts Forward Current - 2.5 Amperes



Dimensions in inches and (millimeters)

* Brazed-lead assembly is covered by Patent No. 3,930,306

FEATURES

- ♦ High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- ◆ 2.5 ampere operation at T_A=50°C with no thermal runaway
- Typical I_R less than 0.1μA
- ♦ Hermetically sealed package
- 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: Solid glass body

Terminals: Solder plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BY228	UNITS
Maximum non repetitive peak reverse voltage	Vrsm	1650	Volts
Maximum repetitive peak reverse voltage	VRRM	1500	Volts
Maximum RMS voltage	VRMS	1050	Volts
Maximum DC blocking voltage	VDC	1500	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 50°C	I(AV)	2.5	Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load	I _{FSM}	50.0	Amps
Maximum instantaneous forward voltage at 2.5A	VF	1.6	Volts
Working peak forward current at T _A =75°C	IFWM	5.0	Amps
Peak repetitive forward surge current at T _A =75°C	I _{FRM}	10.0	Amps
Maximum peak reverse current TA=25°C at rated peak reverse voltage TJ=140°C	I _R	5.0 200	μА
Maximum reverse recovery time (NOTE 1)	trr	20.0	μs
Maximum forward recovery time (NOTE 2)	tfr	1.0	μs
Typical junction capacitance (NOTE 2)	CJ	40.0	pF
Typical thermal resistance (NOTE 4)	Roja	20.0	°C/W
Operating junction temperature range	TJ	-65 to +150	°C
Storage temperature range	Тѕтс	-65 to +200	°C

NOTES

- (1) Measured with I_F=1.0A, I_R=50mA, di/dt=50mA/μs
- (2) Measured with I_F=5.0A with tr=0.1μs
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (4) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES BY228 SERIES

