

T-01-15

BY126MGP, BY127MGP/BY226MGP, BY227MGP
 MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER



GENERAL INSTRUMENT



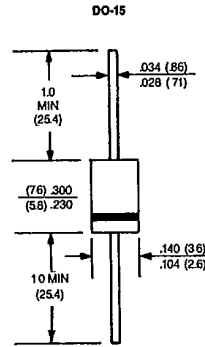
FEATURES

- High temperature metallurgically bonded constructed rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction in DO-15 package
- 1.5 ampere operation at $T_A = 55^\circ\text{C}$ with no thermal runaway
- Typical I_n less than $1 \mu\text{A}$
- Exceeds environmental standards of MIL-STD-19500
- High temperature soldering guaranteed $350^\circ\text{C}/10$ seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic over glass
 Terminals: Axial leads, solderable per MIL-STD-202, Method 208
 Polarity: Color band denotes cathode
 Mounting position: Any
 Weight: 0.015 ounce, 0.4 gram

VOLTAGE RANGE
 650 and 1250 Volts
CURRENT
 1.75 and 2.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 50 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

	BY126MGP	BY127MGP	BY226MGP	BY227MGP	UNITS
Maximum Recurrent Peak Reverse Voltage	650	1250	650	1250	V_{RRM}
Maximum RMS Voltage	455	875	455	875	V_{RMS}
Maximum DC Blocking Voltage	650	1250	650	1250	V_{DC}
Maximum Average Forward Rectified Current .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	1.75		2.0		A_{AV}
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	50		60		Apk
Maximum Instantaneous Forward Voltage at 5.0A			1.5		Vpk
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$			5.0		μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", 9.5mm Lead Length at $T_A = 55^\circ\text{C}$			100		μA
Typical Junction Capacitance (Note 1)			25		pF
Typical Reverse Recovery Time (Note 2)			2.0		μs
Operating and Storage Temperature Range T_J, T_{STG}			-65 to +175		$^\circ\text{C}$

NOTES:
 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.
 2. Measured with $I_F = .5\text{A}$, $I_n = 1\text{A}$, $I_{RR} = .25\text{A}$.

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RATING AND CHARACTERISTIC CURVES
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