

BY296G THRU BY299G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE: 100-800V

CURRENT: 2.0A

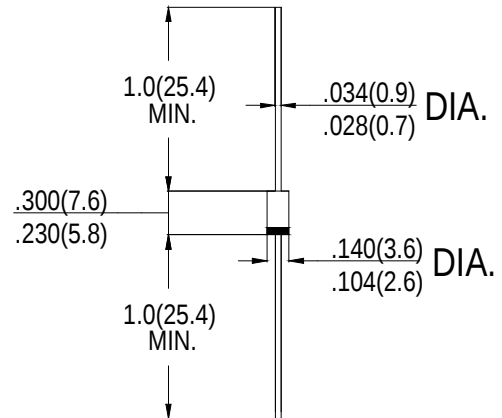
FEATURES

- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.38 grams

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	BY296G	BY297G	BY298G	BY299G	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	800	V
Maximum RMS Voltage	V _{RMS}	70	140	280	560	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	800	V
Maximum Average Forward rectified Current at T _A =75°C	I _o	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	70				A
Maximum Instantaneous forward Voltage at 2.0A DC	V _F	1.3				V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C	I _R	5.0				μA
Maximum Full Load Reverse Current Full Cycle Average,.375”(9.5mm) lead length at T _L =55°C		100				
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150			500	nS
Typical Junction Capacitance (Note 2)	C _J	40				pF

Notes: 1. Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

2. Measured at 1MHz and applied reverse voltage of 4.0 volts