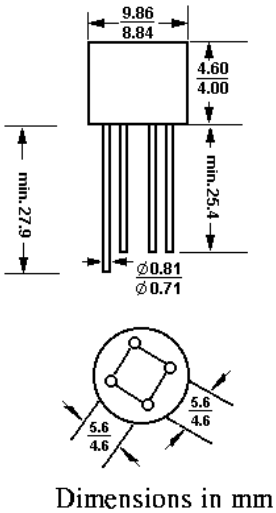
2W005G THRU 2W10G

GLASS PASSIVATED BRIDGE RECTIFIERS
Reverse Voltage – 50 to 1000 Volts
Forward Current – 2.0 Amperes



Dimensions in mm

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded epoxy technique results in inexpensive product

Mechanical Data

- Case: Molded plastic
- Polarity: As marked on Body
- Mounting position: Any

Aboslute Maximum Ratings and Characteristics

Ratings at 25°Cambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T_A = 25 °C	$I_{(AV)}$	2							A
Peak forward surge current , 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	60							A
Maximum forward voltage at 2.0A DC	V_F	1.1							V
Maximum DC reverse current @ T_J = 25 °C at rated DC blocking voltage @ T_J =125 °C	I_R	5 500							µA
Typical junction capacitance per element (Note 1)	C_J	25							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Operating temperature range	T_J	-55 to +150							°C
Storage temperature range	T_S	-55 to +150							°C

Notes: (1) Measured at 1MHz and appliad reverse voltage of 4V DC.

(2) Thermal resistance junction to ambient.

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RATINGS AND CHARACTERISTIC CURVES (2W005G THRU 2W10G)

FIG.1-FORWARD CURRENT DERATING CURVE

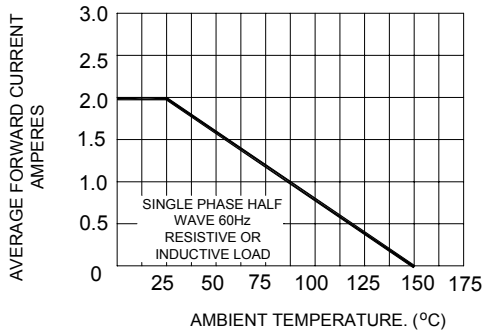

FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

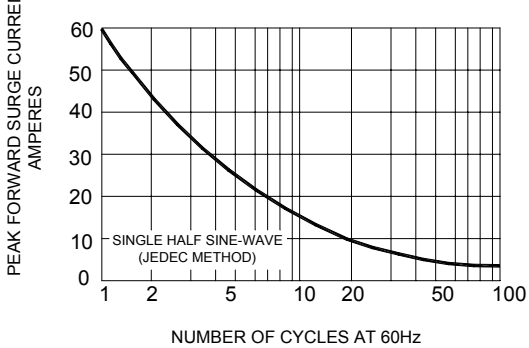

FIG.3-TYPICAL, JUNCTION CAPACITANCE

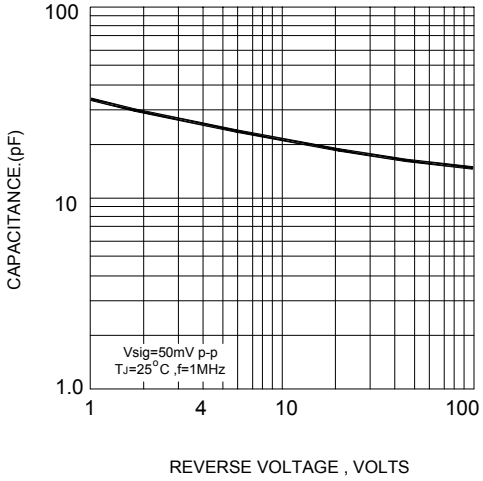

FIG.4-TYPICAL FORWARD CHARACTERISTICS

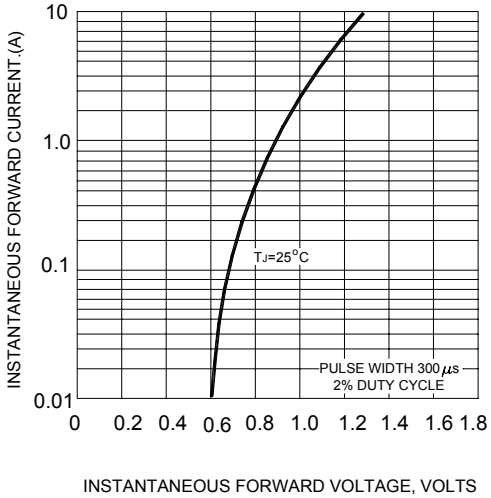

FIG.5-TYPICAL REVERSE CHARACTERISTICS