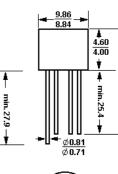
2W005G THRU 2W10G

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

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





Dimensions in mm

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 $T_A = 25$ ^o C	I _(AV)	2							А
Peak forward surge current , 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	60							А
Maximum forward voltage at 2.0A DC	VF	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)	CJ	25							pF
Typical thermal resistance (Note 2)	$R_{ ext{ heta}JA}$	40							°C/W
Operating temperature range	TJ	-55 to +150							°C
Storage temperature range	Ts	-55 to +150							°C

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

(2) Thermal resistance junction to ambient.











(Subsidiary of Semtech International Holdings Limited, acompany listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated : 23/06/2003

RATINGS AND CHARACTERISTIC CURVES (2W005G THRU 2W10G)

10

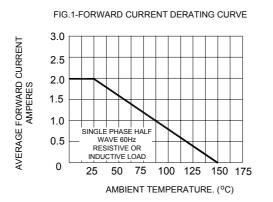
1.0

0.1

0.0

0

INSTANTANEOUS FORWARD CURRENT.(A)



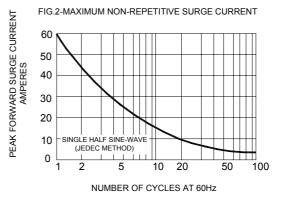


FIG.4-TYPICAL FORWARD CHARACTERISTICS

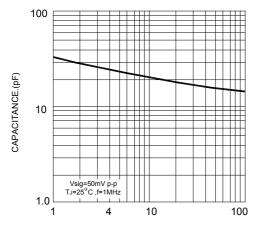
J=25°

 $0.2 \ \ 0.4 \ \ 0.6 \ \ 0.8 \ \ 1.0 \ \ 1.2 \ \ 1.4 \ \ 1.6 \ 1.8$

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

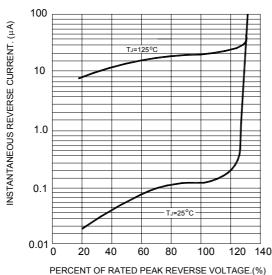
PULSE WIDTH 300 µs 2% DUTY CYCLE





REVERSE VOLTAGE, VOLTS

FIG.5-TYPICAL REVERSE CHARACTERISTICS



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