

## **B05S THRU B10S**

.165 (4.2)

.146 (3.7)

.067 (1.7) .057 (1.3)

B8S

800

560

800

B10S

1000

700

1000

Unit

V

V

V

А

А

A<sup>2</sup>s

V

μA

pF

°C/W

°C

°C

**P**b

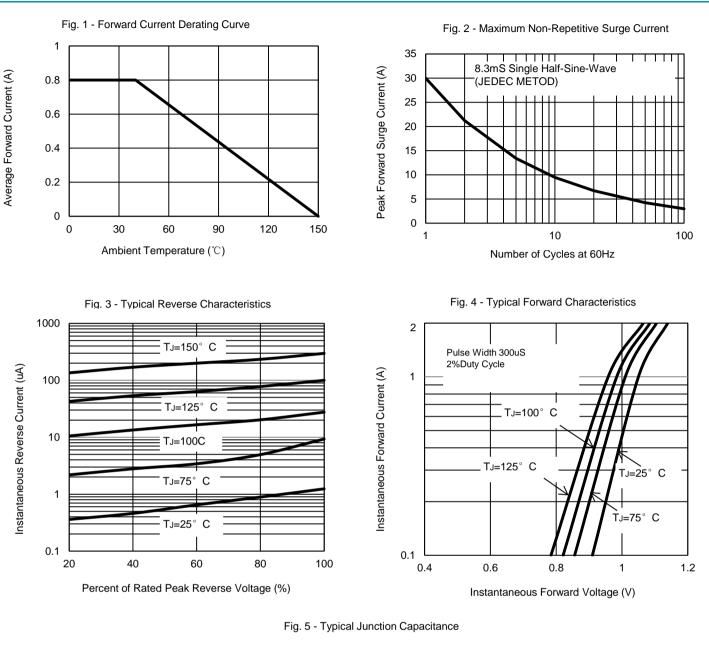
RoHS

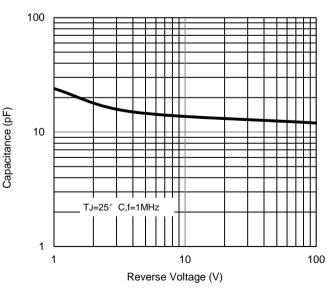
## www.hygroup.com.tw Reverse Voltage - 50 to 1000 Volts Surface Mount Glass Passivated **Bridge Rectifiers** Forward Current - 0.8 Amperes MBS Features Glass passivated chip Ideal for automatic placement High surge forward current capability .275 (7.0) Max. Reliable low cost construction utilizing .067 (1.7 molded plastic technique .057 (1.3 .051 (1.3) Lead tin plated copper Meet UL flammability classification 94V-0 .014 (.35) .006 (.15) 043 (1.1) **Mechanical Data** .027 (0.7) .031 (0.8) .019 (0.5) .090 (2.3) Polarity: Symbol marked on body Mounting position: Any Note: Products with logo .193 (4.9) .177 (4.5) Applications .106 (2.7) .09 (2.3) • General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc. 008 (0.2) Package Outline Dimensions in Inches (Millimeters) **Maximum Ratings and Electrical Characteristics** Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Symbol B05S B1S B2S B4S B6S Maximum Repetitive Peak Reverse Voltage Vrrm 50 100 200 400 600 Maximum RMS Voltage 70 140 280 420 VRMS 35 Maximum DC Blocking Voltage 100 200 400 600 VDC 50 Maximum Average Forward Rectified Current @TA=40 ℃ (Note1) 0.8 (AV) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, 30 **I**FSM Superimposed on Rated Load (JEDEC Method) 3.7 I<sup>2</sup>t Rating for Fusing (t<8.3mS) l<sup>2</sup>t Peak Forward Voltage per Diode at 0.8A DC VF 1.05 5 Maximum DC Reverse Current at Rated @TJ=25°C IR 500 DC Blocking Voltage per Diode @TJ=125°C Typical Junction Capacitance (Note2) СJ 15 Typical Thermal Resistance Junction to Ambient Reja 75 **Operating Junction Temperature Range** -55 to +150 ТJ Storage Temperature Range TSTG -55 to +150 Notes:1.Mounted on P.C. board. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. The typical data above is for reference only .

B\*S-13-92-00/01 Rev. 11, 18-May-2020

## Rating and Characteristic Curves B05S THRU B10S





The curve above is for reference only.

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## Disclaimer

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