2.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V

Forward Current – 2.0A

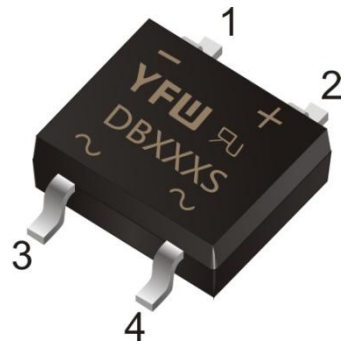
lead-free ROHS

FEATURES

- High current capability
- Low forward voltage drop
- Glass Passivated Chip Junction
- Low power loss, high efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: DB-S
- Terminals: Solderable per MIL-STD-202, Method 208
- Approx. Weight: 0.4g /0.02oz



1.Input pin(-)
2.Input pin(+)
3.Output Anode(~)
4.Output Cathode(~)

DB-S

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	2						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	60						A
Forward Voltage per element @I_F =2.0A and 25°C	V_F	1.1						V
Maximum DC Reverse Current @T_A=25°C at Rated DC Blocking Voltage @T_A=125°C	I_R	5 500						μA
Typical Junction Capacitance (Note1)	C_j	25						pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$/ $R_{\theta JC}$	40/15						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°C

（1）Measured at 1 MHz and applied reverse voltage of 4 V D.C

（2）Mounted on glass epoxy PCB board with 4×1.5"×1.5"（3.81×3.81 cm） copper pad.

Fig.1 Average Rectified Output Current Derating Curve

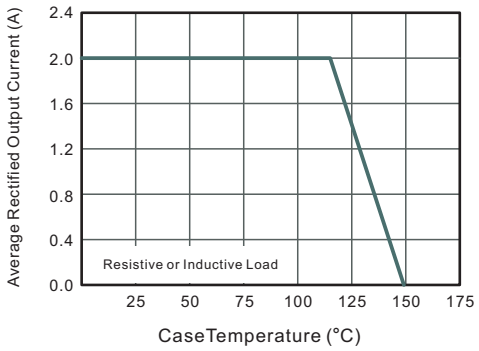


Fig.2 Typical Reverse Characteristics

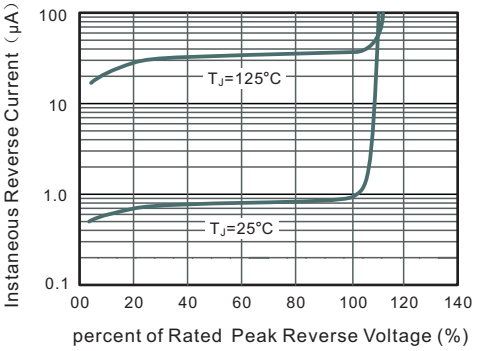


Fig.3 Typical Instaneous Forward Characteristics

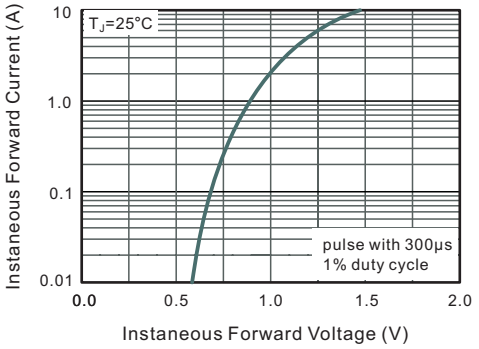


Fig.4 Typical Junction Capacitance

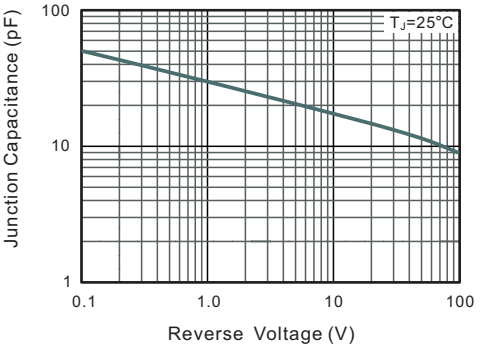
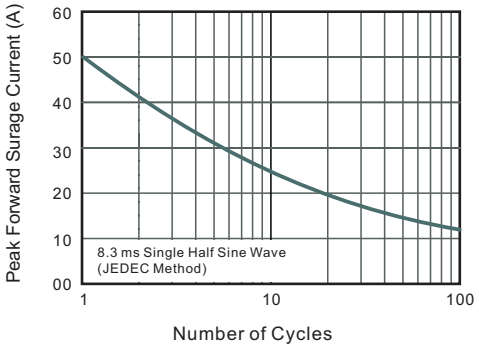
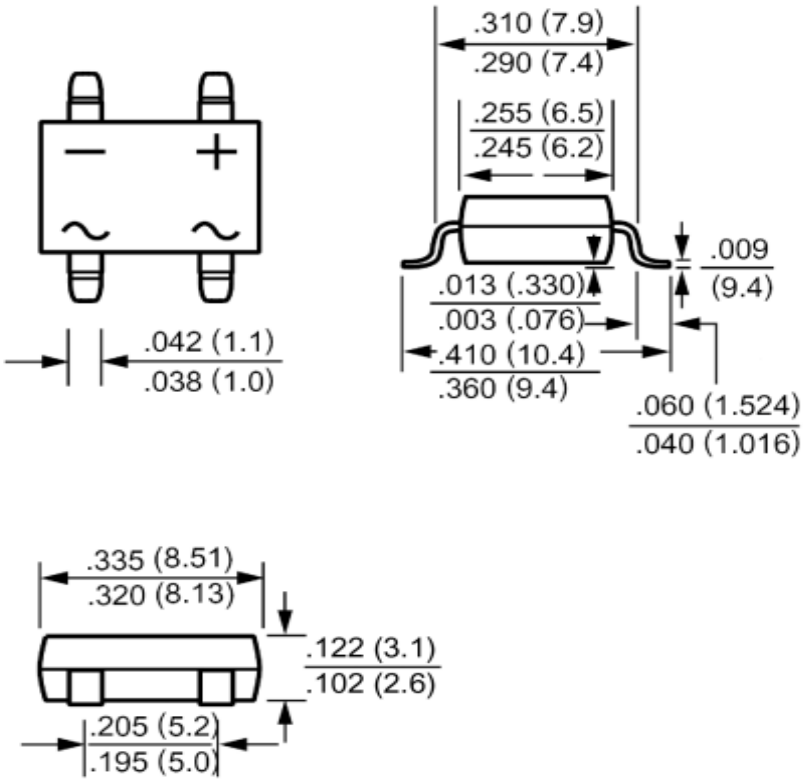


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



Package Outline DB-S

Plastic surface mounted package; 4 leads



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DB-S	Tape/Reel,13"reel	1500	EIA-481-1