

SINGLE-PHASE BRIDGE RECTIFIER

DB101S thru DB107S

**SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000** Volts
FORWARD CURRENT - **1.0** Amperes

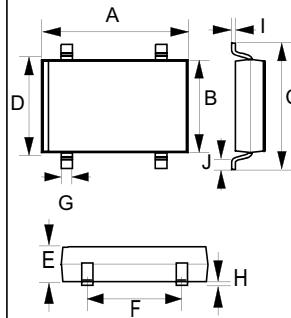
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity :As marked on Body
- Weight : 0.04 ounces, 1.00 grams
- Mounting position : Any

DB-S



DF-S		
DIM.	MIN.	MAX.
A	8.12	8.51
B	6.20	6.50
C	9.40	10.30
D	7.40	7.90
E	2.90	3.30
F	5.00	5.20
G	1.02	1.20
H	.076	.330
I	0.22	0.33
J	1.02	1.53

All Dimensions in millimeter

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%

CHARACTERISTICS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DF106S	DB107S	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=40°C	I(AV)					1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM					50			A
Maximum forward Voltage at 1.0A DC	VF					1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=125°C	IR					10 500			uA
I ² t Rating for fusing (t < 8.3ms)	I ² t					10.4			A ² S
Typical Junction Capacitance per element (Note 1)	CJ					25			pF
Typical Thermal Resistance (Note 2)	RθJA					40			°C/W
Operating Temperature Range	TJ					-55 to +150			°C
Storage Temperature Range	TSTG					-55 to +150			°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5x0.5"(13x13mm) copper pads.

