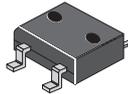


DB101S THRU DB107S

SINGLE PHASE 1.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: marked on body
- * Mounting position: Any
- * Weight: 1.0 grams
- * Both normal and Pb free products are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99Sn above can meet RoHS environment substance directive request

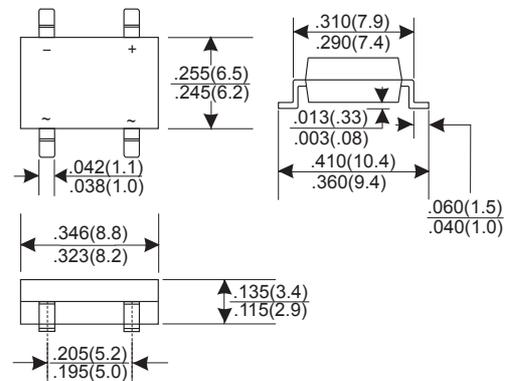
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

DB-1S



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current									
See Fig. 1								1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								50	A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.								1.1	V
Maximum DC Reverse Current								10	μA
at Rated DC Blocking Voltage								500	μA
Operating Temperature Range, T _J								-65 — +125	°C
Storage Temperature Range, T _{STG}								-65 — +150	°C

RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

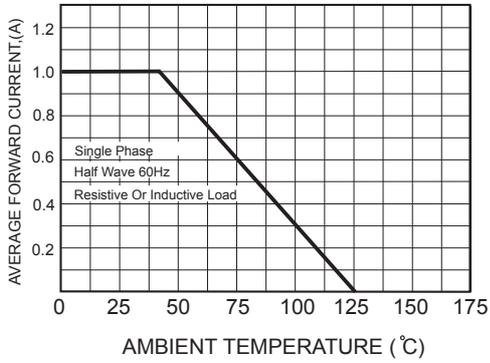


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

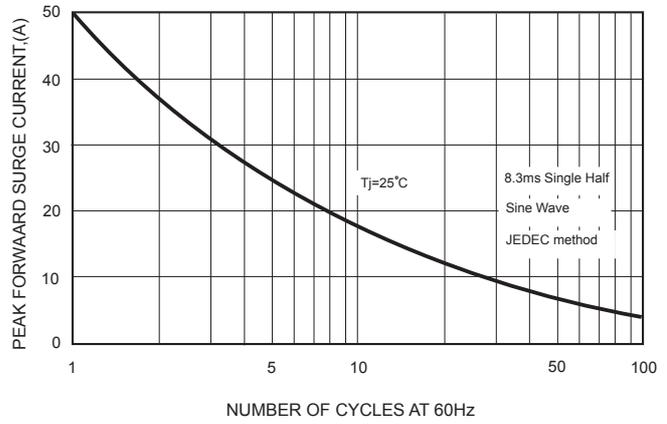


FIG.3-TYPICAL FORWARD CHARACTERISTICS

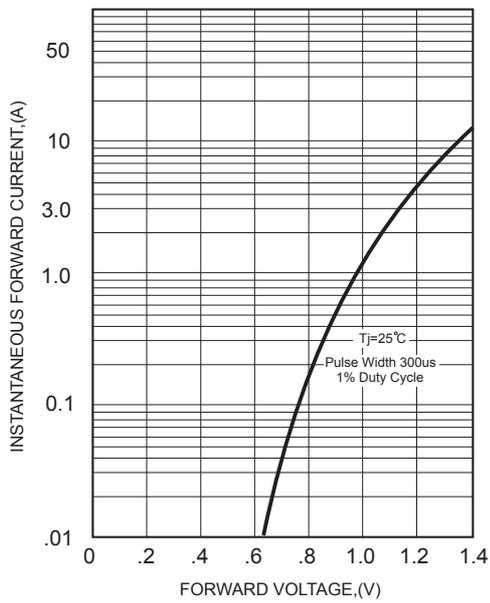


FIG.4-TYPICAL REVERSE CHARACTERISTICS

