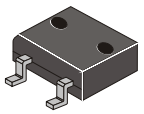
DB301GS THRU DB307GS

SINGLE PHASE 3.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



VOLTAGE RANGE

50 to 1000 Volts

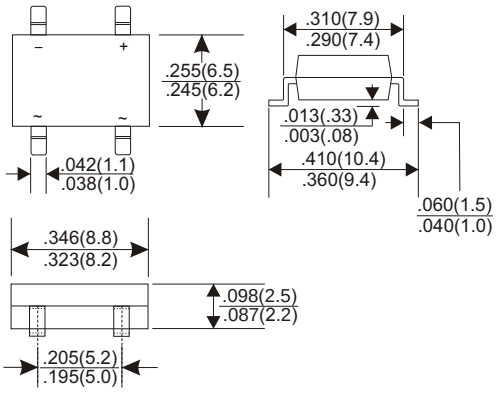
CURRENT

3.0 Ampere

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 product are available:
* Normal:80~95%Sn,5~20%Pb
* Pb free:99 Sn above can meet Rohs enviroment substance directive request

DB-S



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	DB301GS	DB302GS	DB303GS	DB304GS	DB305GS	DB306GS	DB307GS	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 .375"(9.5mm) Lead Length at Ta=40˚C	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	85							A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.	1.1							V
Maximum DC Reverse Current Ta=25˚C	5							uA
at Rated DC Blocking Voltage Ta=125˚C	500							uA
Operating Temperature Range, Tj	-65 — +150							˚C
Storage Temperature Range, TSTG	-65 — +150							˚C

RATING AND CHARACTERISTIC CURVES (DB301GS THRU DB307GS)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

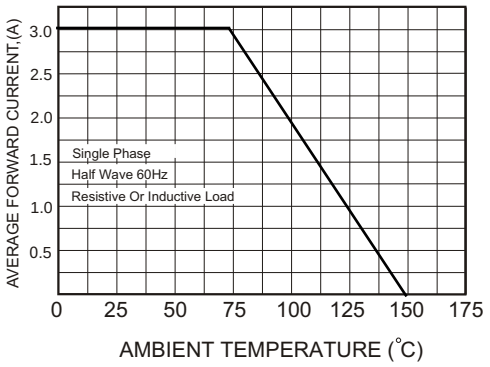


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

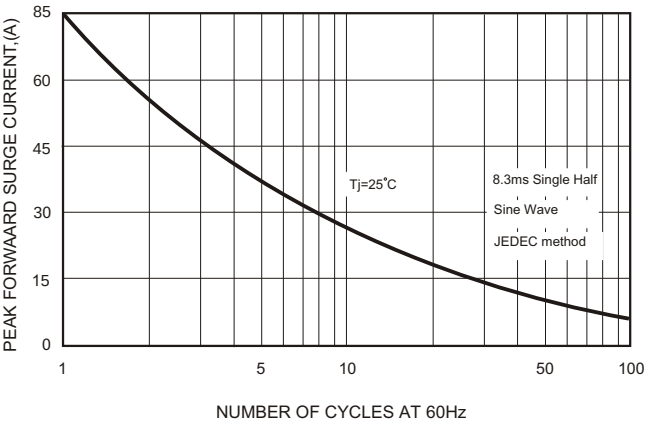


FIG.3-TYPICAL FORWARD CHARACTERISTICS

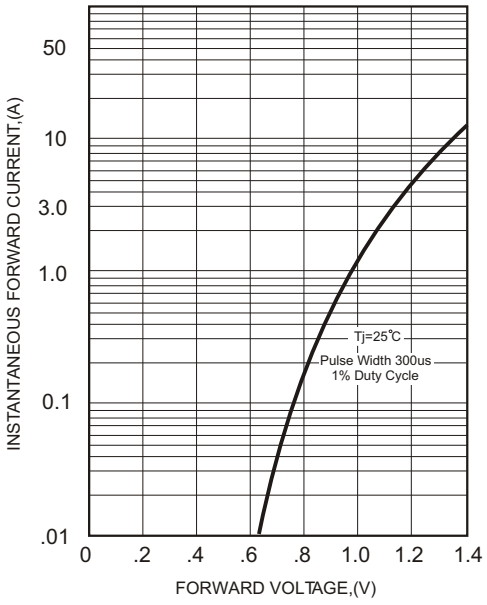


FIG.4-TYPICAL REVERSE CHARACTERISTICS

