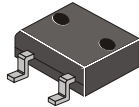


# DB301GS THRU DB307GS



SINGLE PHASE 3.0 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 product are available:
- \* Normal: 80~95%Sn, 5~20%Pb
- \* Pb free: 99 Sn above can meet Rohs environment substance directive request

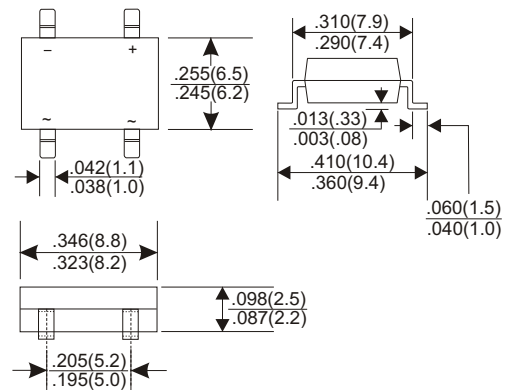
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

3.0 Ampere

### DB-S



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	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	A
at Rated DC Blocking Voltage Ta=125°C								500	A
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

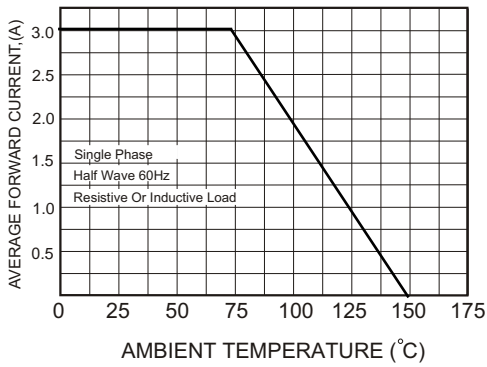


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

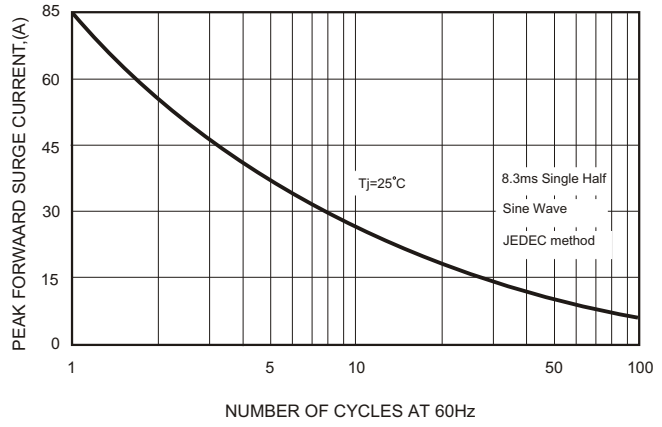


FIG.3-TYPICAL FORWARD CHARACTERISTICS

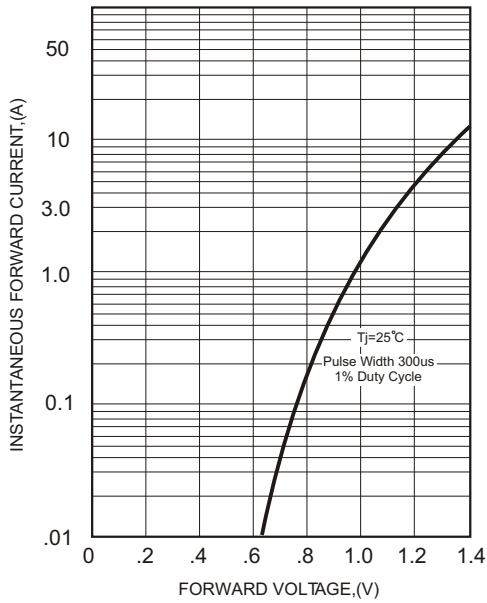


FIG.4-TYPICAL REVERSE CHARACTERISTICS

