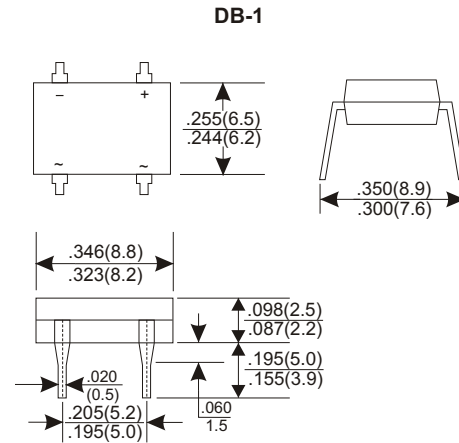


SINGLE PHASE 3.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS

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: 0.9 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



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	DB301	DB302	DB303	DB304	DB305	DB306	DB307	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.								1.0	V
Maximum DC Reverse Current Ta=25°C								5	uA
at Rated DC Blocking Voltage Ta=125°C								200	uA
Operating Temperature Range, Tj								-65 — +150	°C
Storage Temperature Range, TSTG								-65 — +150	°C
Rating for Fusing (t < 8.3ms) I ² t								26.5	A ² s

RATING AND CHARACTERISTIC CURVES (DB301 THRU DB307)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

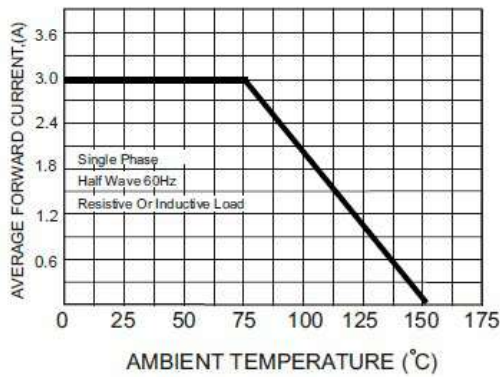


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

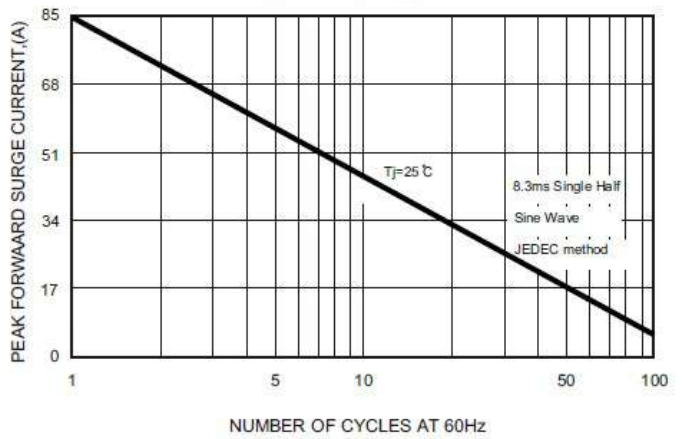


FIG.3-TYPICAL FORWARD CHARACTERISTICS

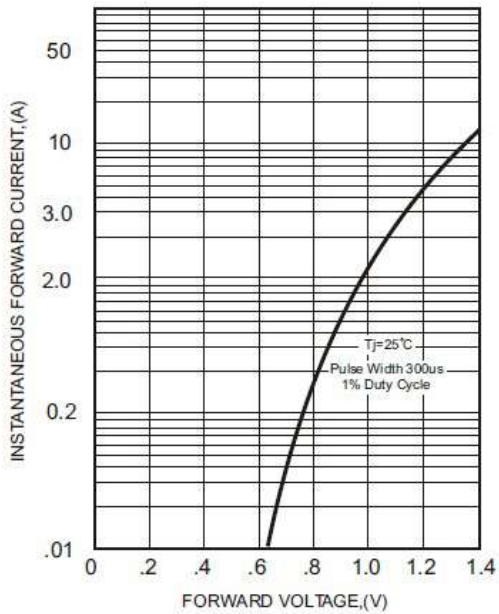


FIG.4-TYPICAL REVERSE CHARACTERISTICS

