GOODWORK

DB151S THRU DB157S

SINGLE PHASE 1.5 AMP SURFACE MOUNT BRIDGE RECTIFIERS

VOLTAGE RANGE

50 to 1000 Volts

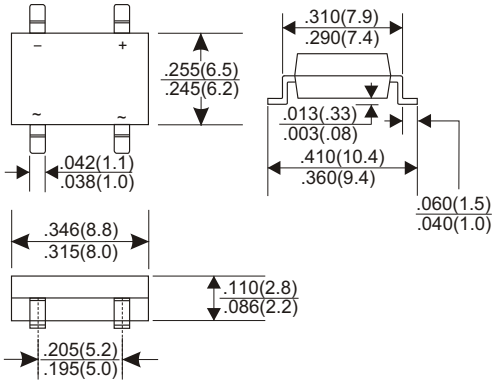
CURRENT

1.5 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

DB-1S



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	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	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=25˚C	1.5							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60							A
I^2t Rating for Fusing (1ms < t < 8.3ms)	15							A^2S
Maximum Forward Voltage Drop per Bridge Element at 1.5A D.C.	1.0							V
Maximum DC Reverse Current Ta=25℃	10							μA
at Rated DC Blocking Voltage Ta=125℃	500							μA
Operating Temperature Range, T_J	-65 — +150							˚C
Storage Temperature Range, T_{STG}	-65 — +150							˚C

RATING AND CHARACTERISTIC CURVES (DB151S THRU DB157S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

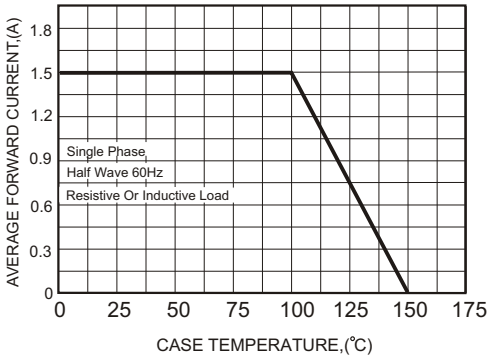


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

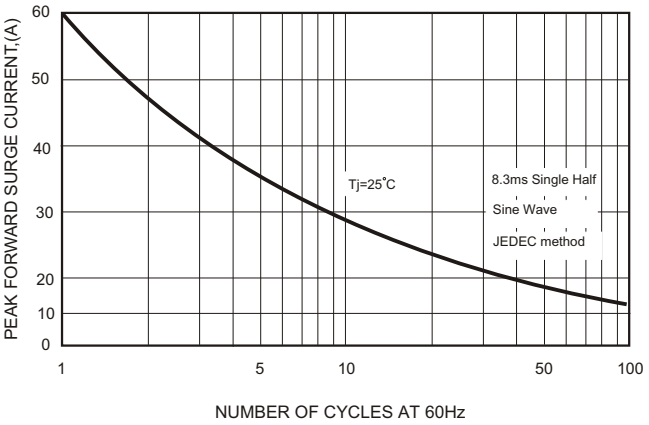


FIG.3-TYPICAL FORWARD CHARACTERISTICS

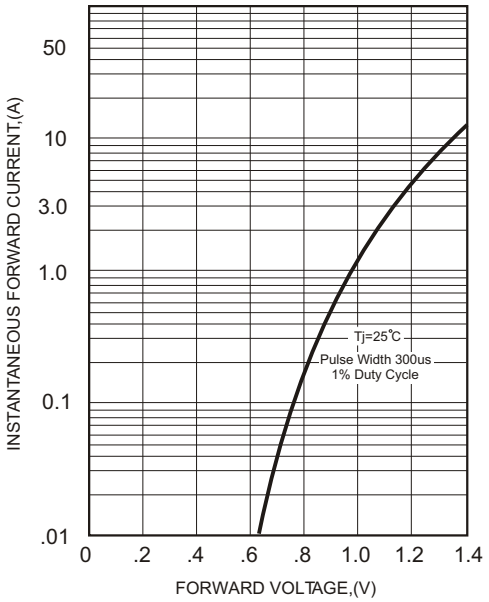


FIG.4-TYPICAL REVERSE CHARACTERISTICS