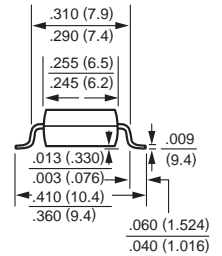
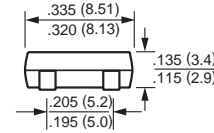
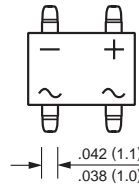


DB101S ---DB107S

FEATURES

- UL Recognized Component
- Ideal for Printed Circuit Board
- Glass Passivated Chip Junctions, Surge Overload Rating of 50A Peak
- Simple, Compact Structure for Trouble-free Performance
- Plastic Package - UL Flammability Classification 94V-0



DBS

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics (Ta=25 °C unless otherwise noted)

Characteristic	Symbol	DB 101S	DB 102S	DB 103S	DB 104S	DB 105S	DB 106S	DB 107S	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum OC Blocking Voltage	V _{OC}	50	100	200	400	600	800	1000	V
Maximum Average Rectified output Current @ T _A = 400C	I _(AV)	1.0							A
Peak Forward Surge Current Single Half Sine wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							A
Maximum Instantaneous Forward Voltage drop per Element at I _F = 1.0A	V _F	1.1							V
Maximum Reverse OC Current at Rated @ T _A = 250C	I _R	10							uA
OC Blocking Voltage per Element @ T _A = 1000C		1.0							mA
Typical Thermal Resistance (Note 1)	R _{qJA}	40							K/W
Storage and operating Temperature Range	T _J , T _{STG}	-55 to +150							°C

- Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.
 2. 60 Hz resistive or inductive load.
 3. For capacitive load, derate current by 20%.

DB101S ---DB107S CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

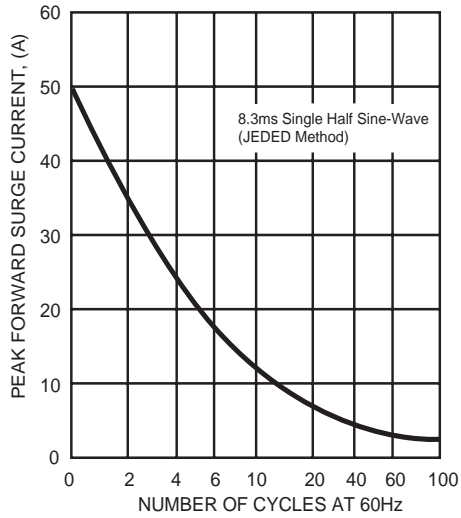


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

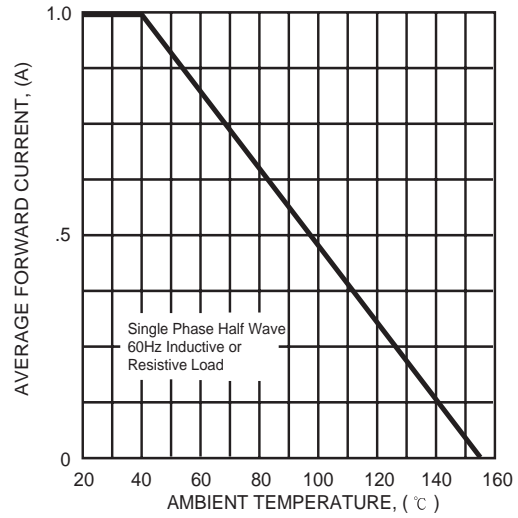


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

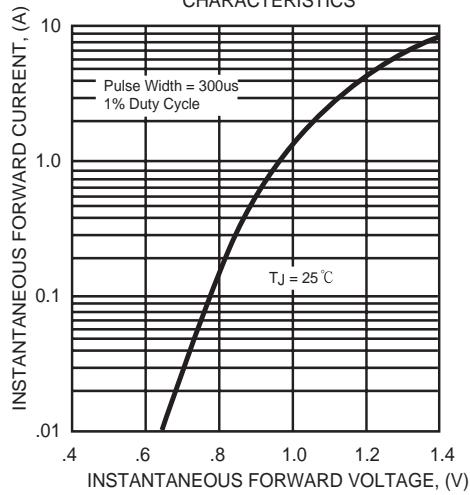


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

