SEMICONDUCTOR

DB101S (DF005S)THRU DB107S(DF10S)

SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage: 50 to 1000 Volts
Forward Current: 1.0 Amps

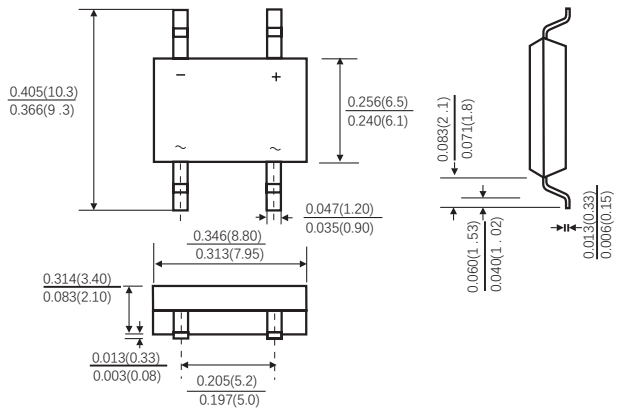
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260℃/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- Case: DBS molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

DBS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25̊ C ambient temperature unless otherwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

Parameters		Symbols	DB101S DF005S	DB102S DF01S	DB103S DF02S	DB104S DF04S	DB105S DF06S	DB106S DF08S	DB107S DF10S	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	45							A
Maximum Instantaneous Forward Voltage at 1 0A DC		V_F	1.1							V
Maximum DC Reverse Current at rated DC blocking voltage	T_A =25° C	I_R	5							μA
	T_A =125° C		100							
Typical thermal resistence(Note 1)		$R_{\theta JA}$	40							°C/W
Operating junction and storage temperature range		T_J T_{STG}	-55 to +150							°C

Note: 1. Thermal resistance junction to ambient mounted on P.C.B. With 05*0.5 inches(1.3*1.3mm) copper pads

RATINGS AND CHARACTERISTIC CURVES DB101S(DF005S) THRU DB107S (DF10S)

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

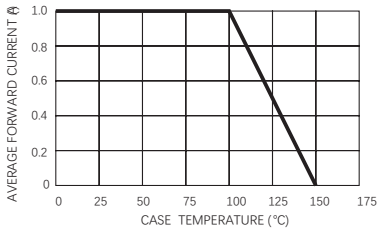


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

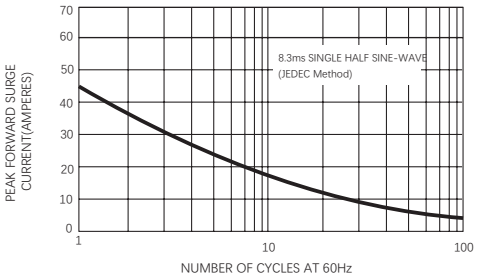


FIG.3-TYPICAL REVERSE CHARACTERISTICS

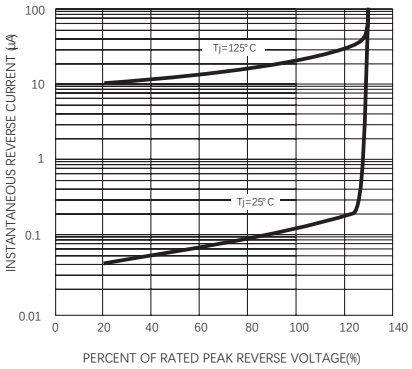
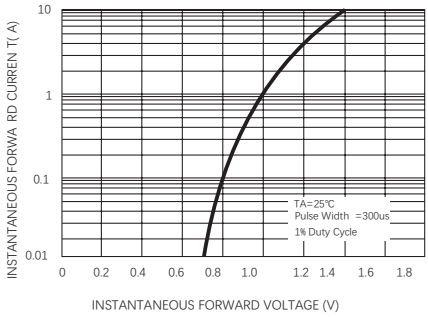


FIG4-TYPICAL FORWARD CHARACTERISTICS



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