DB101S THRU DB107S

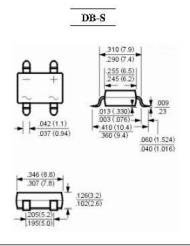
SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

- High surge overload rating of 50 A peak
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Glass passivated chip junction

Mechanical Data

- Case: Molded plastic, DB-S
- Epoxy: UL 94V-0 rate flame retardant
- Terminal: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Units
Maximum Recurrent 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 at $T_A = 40 \ ^{\circ}C^{2)}$	I _(AV)	1							А
Peak Forward Surge Current 8.3 ms Single Half-sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Forward Voltage at 1 A DC	V _F	1.1							V
Maximum Reverse Current $T_A = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 125 \ ^{\circ}C$	I _R	5 500							μA
Typical Junction Capacitance ¹⁾	CJ	25							pF
Typical Thermal Resistance 2)	$R_{ ext{ heta}JA}$	40							°C/W
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JL}$	15							°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150							°C

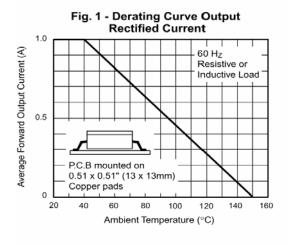
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

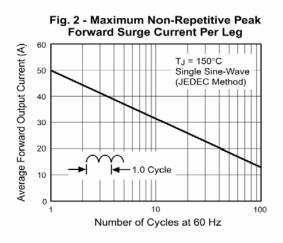
²⁾ Units mounted P.C.B. with 0.5 X 0.5" (13 X 13 mm) copper pads.

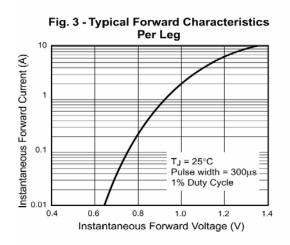
listed on the Hong Kong Stock Exchange, Stock Code: 724)

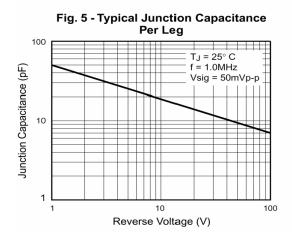


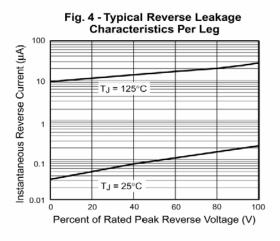


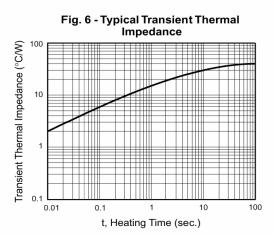














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