

SILICON BRIDGE RECTIFIER

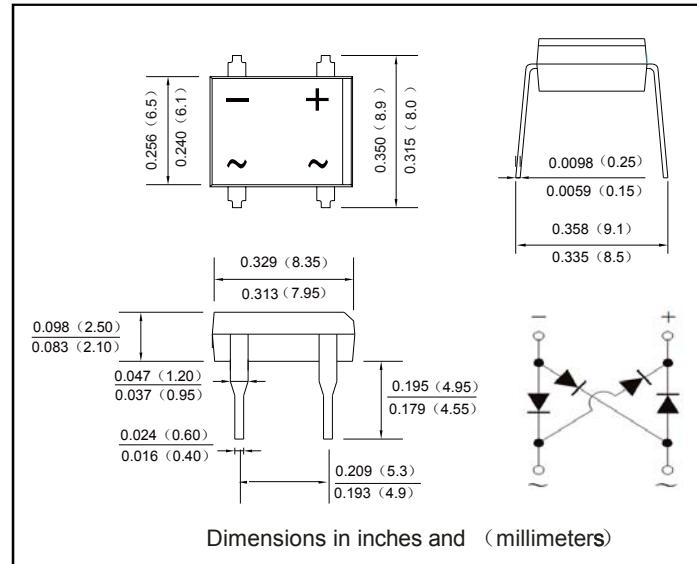
Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: DB-M, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case Mounting position: Any
- Marking: type numberLead Free: For RoHS / Lead Free Version

REVERSE VOLTAGE : 50 --- 1000 V CURRENT: 1.0A



Maximum Ratings and Electrical Characteristics

Rating at 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 (NOTE3)			DB101(H)	DB102(H)	DB103(H)	DB104(H)	DB105(H)	DB106(H)	DB107(H)	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50								V
	V _{RWM}		100							
	V _{DC}									
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700		V
Average Rectified Output Current (Note 1)@T _c =100°C	I _{F(AV)}									A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}									A
I ² t Rating for Fusing (t < 8.3ms)	I ² t									A ² s
Forward Voltage per element @I _F =1.0A	V _{FM}									V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R									uA
Typical Junction Capacitance per leg	C _J									pF
Typical Thermal Resistance per leg (Note 2)	R _{θJA}									°C/W
	R _{θJL}									
Operating and Storage Temperature Range	T _J , T _{STG}									°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. "H": Halogen Free

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Output Current Derating Curve

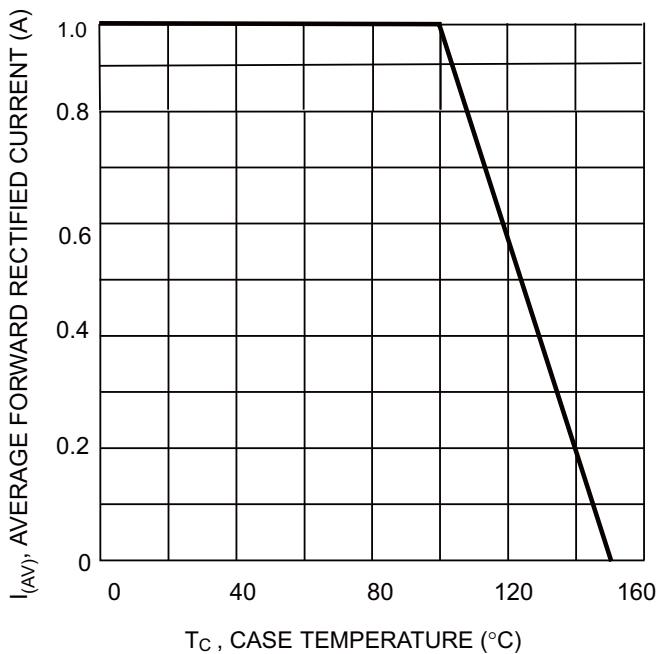


Fig. 2 Typical Forward Characteristics (per leg)

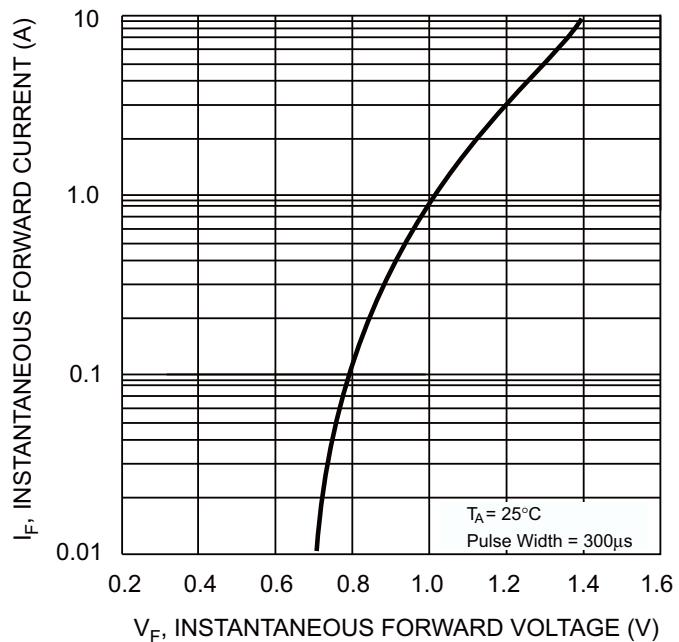


Fig. 3 Maximum Peak Forward Surge Current (per leg)

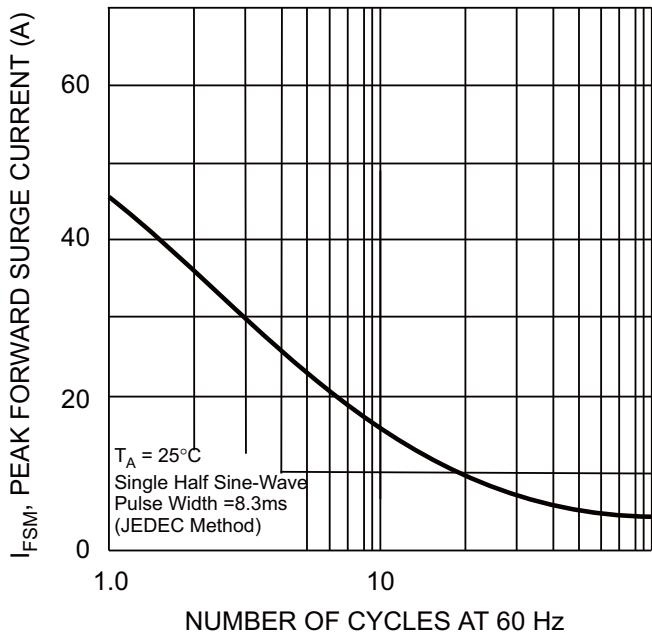


Fig. 4 Typical Reverse Characteristics (per element)

