



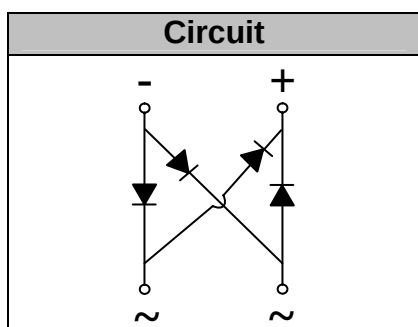
Glass Passivated Single Phase Bridge Rectifiers

Reverse Voltage 200 to 1000V

Forward Current 1.0 Amp

Features

- Glass passivated die construction
- Ideal for automatic insertion
- Plastic material used carries UL flammability recognition 94V-0
- High surge current capability



Mechanical Data

Case: Molded plastic case

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Marked on Body

Mounting Position: Any

Module Type

TYPE	V _{RRM}	V _{RSM}
DB103	200V	300V
DB104	400V	500V
DB105	600V	700V
DB106	800V	900V
DB107	1000V	1100V

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
I _{F(AV)}	Maximum average forward output rectified current T _C = 40°C	1.0	A
I _{FSM}	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	30	A
i ² t	Rating for fusing (t < 8.3ms)	3.7	A ² s
Visol	a.c. 50HZ; r.m.s.; 1min	2500	V
R _{θJA} R _{θJC}	Maximum thermal resistance per leg	40 15	°C/W
T _J , T _{STG}	Operating Junction and storage temperature range	-55 to +150	°C
Weight	Approximate Weight	0.4	g

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
V _F	Maximum Instantaneous Forward Voltage per leg I _{FM} = 1.0A	1.1	V
I _R	Maximum DC reverse current at rated DC blocking voltage per leg T _A = 25°C T _A = 125°C	5.0 500	μA
C _J	Typical Junction Capacitance per leg V _R = 4.0V 1.0MHZ	25	pF

Notes: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47x0.47" (12 x12mm) copper pads.

Performance Curves

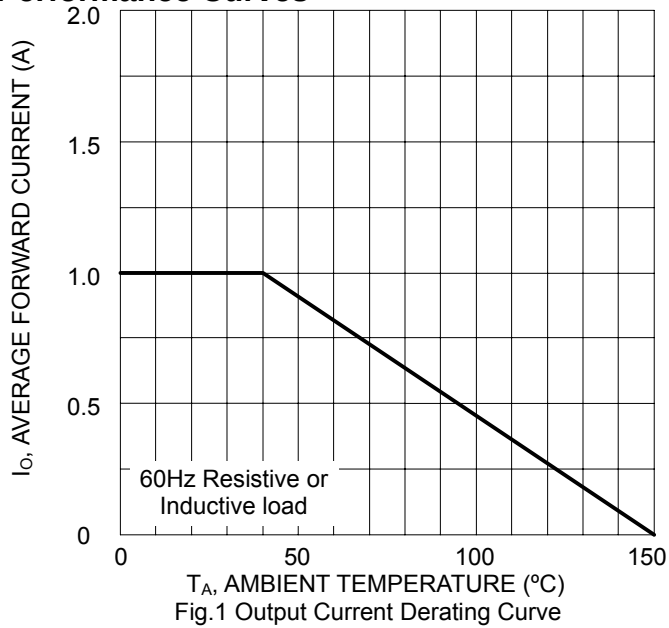


Fig.1 Output Current Derating Curve

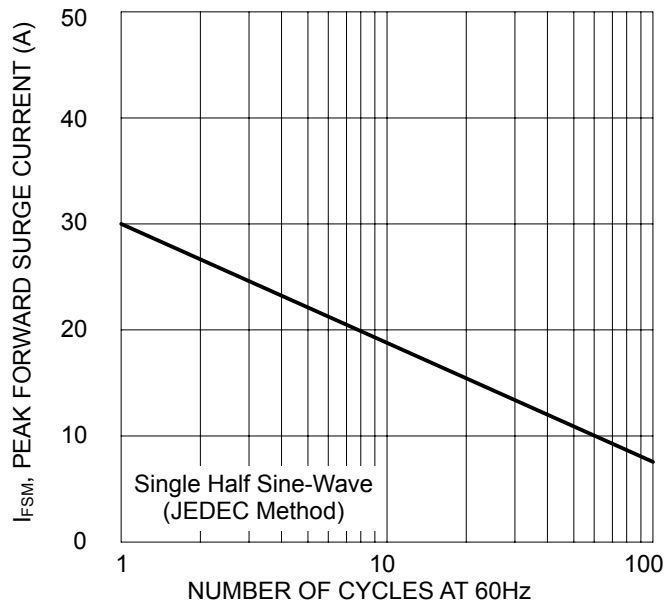


Fig.3 Max Non-Repetitive Peak Forward Surge Current

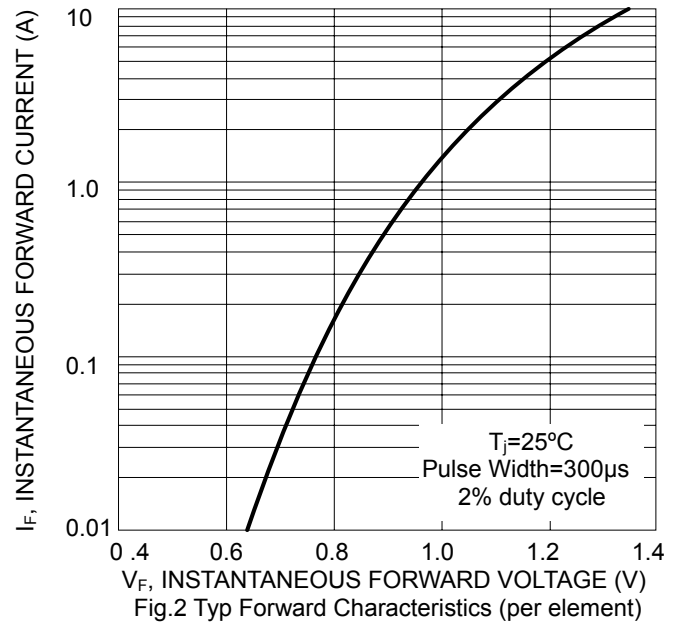


Fig.2 Typ Forward Characteristics (per element)

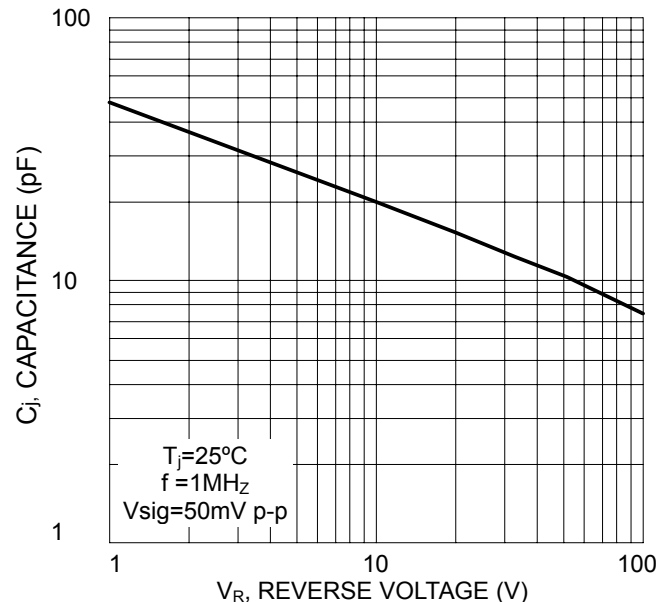


Fig.4 Typ Junction Capacitance (per element)

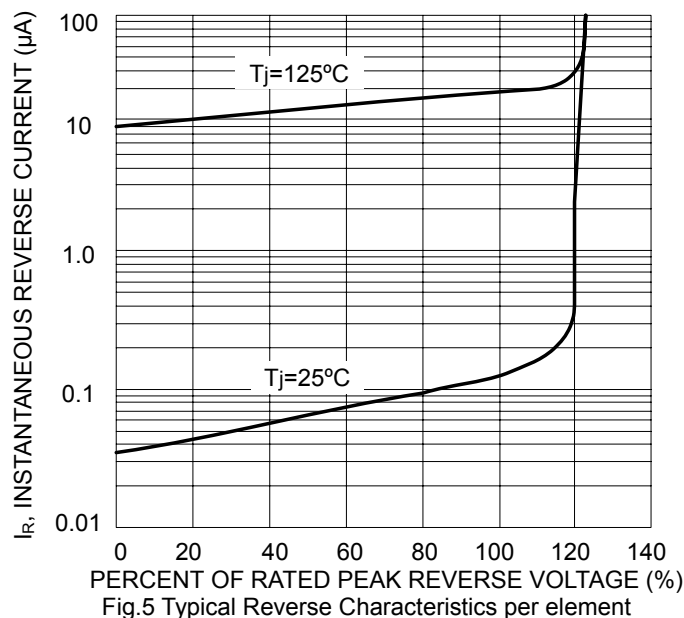
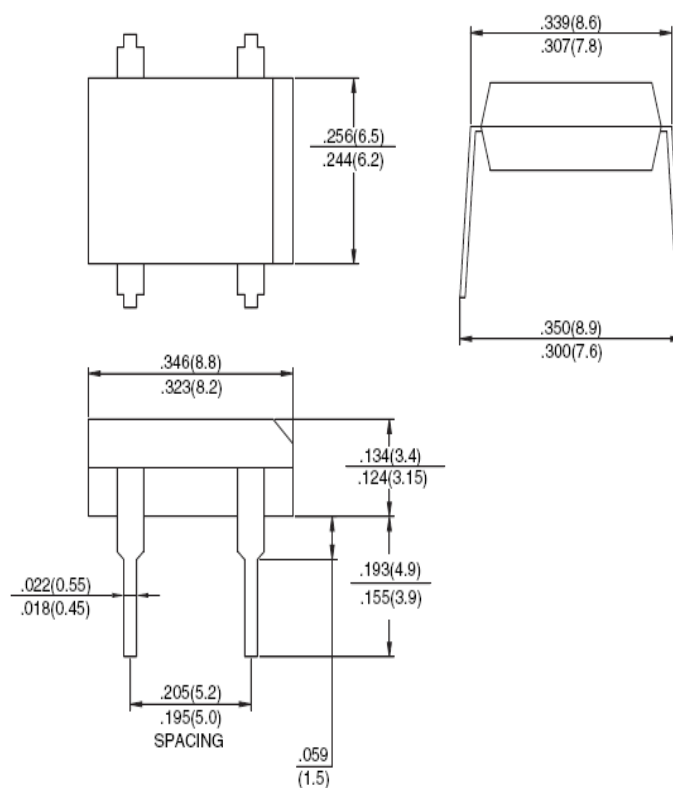


Fig.5 Typical Reverse Characteristics per element

Package Outline Information

CASE: DB-1



Dimensions in inches (mm)