

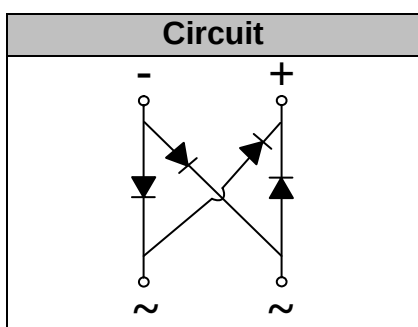
Glass Passivated Single Phase Bridge Rectifiers

Reverse Voltage 200 to 1000V

Forward Current 1.5 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	VRRM	VRSM
SDB153A	200V	300V
SDB154A	400V	500V
SDB155A	600V	700V
SDB156A	800V	900V
SDB157A	1000V	1100V

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

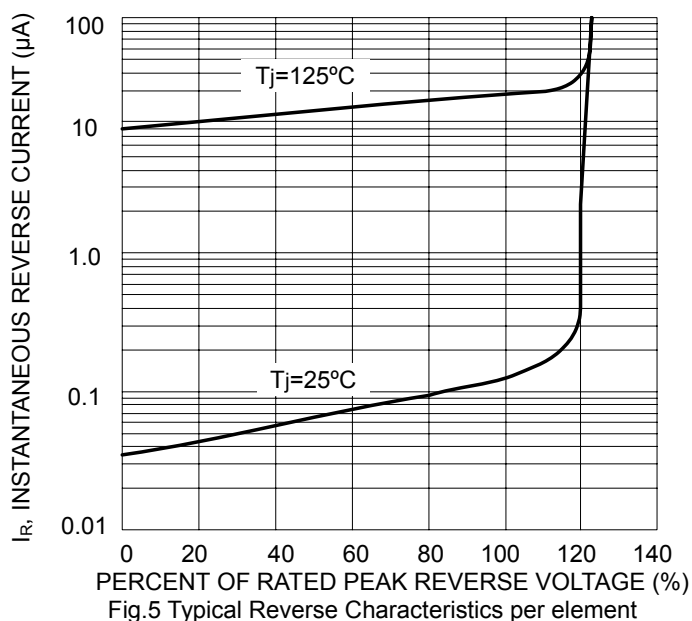
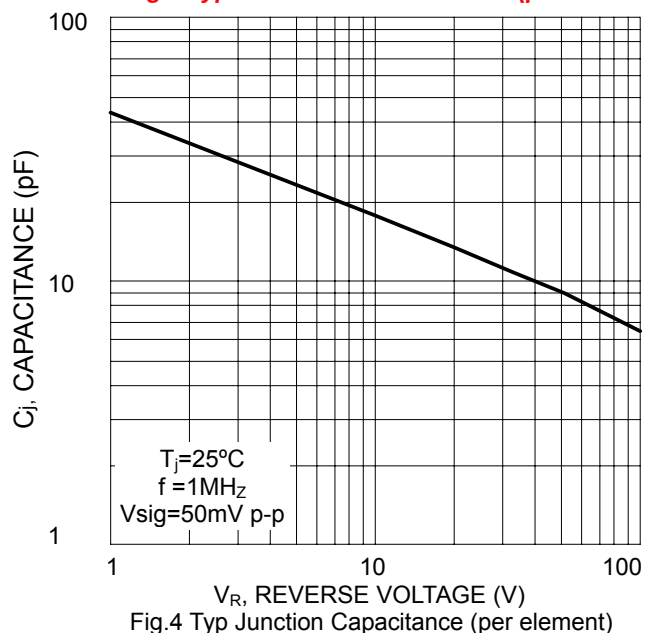
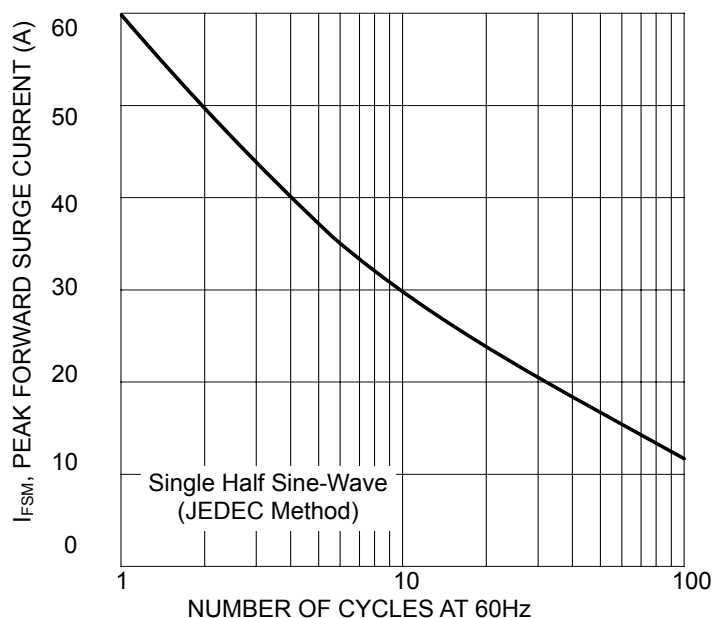
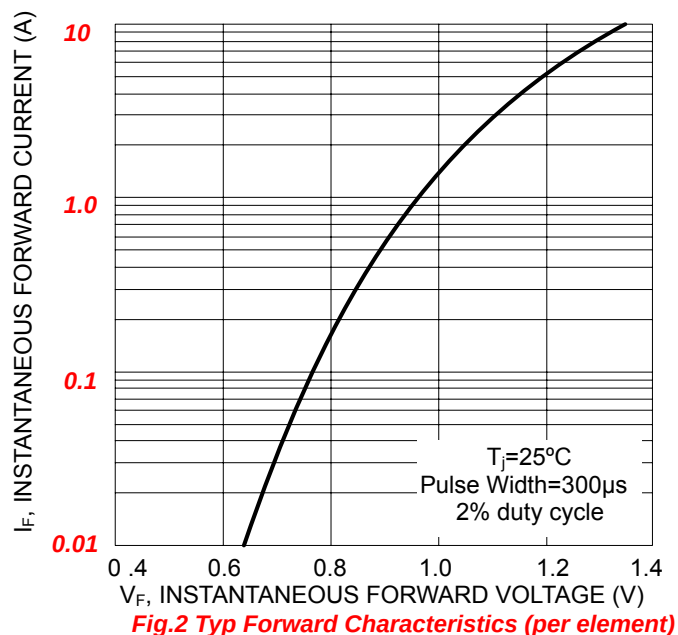
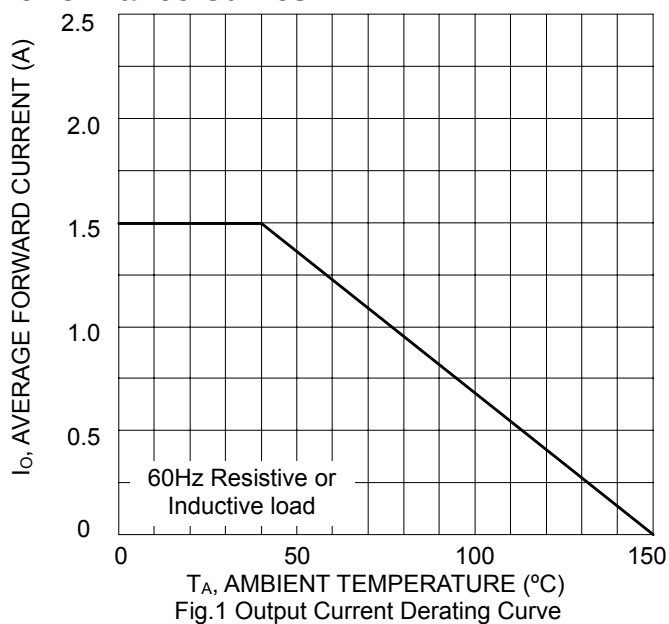
Symbol	Conditions	Values	Units
IF(AV)	Maximum average forward output rectified current Tc = 40°C	1.5	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	60	A
i ² t	Rating for fusing (t < 8.3ms)	10	A ² s
Visol	a.c. 50HZ; r.m.s.; 1min	2500	V
RθJA RθJC	Maximum thermal resistance per leg	40 15	°C/W
Tj, TSTG	Operating Junction and storage temperature range	-55 to +150	°C
Weight	Approximate Weight	0.4	g

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

Symbol	Conditions	Values	Units
VF	Maximum Instantaneous Forward Voltage per leg IFM = 1.5A	1.1	V
IR	Maximum DC reverse current at rated DC blocking voltage per leg TA = 25°C TA = 125°C	5.0 500	μA
CJ	Typical Junction Capacitance per leg VR = 4.0V 1.0MHZ	25	pF

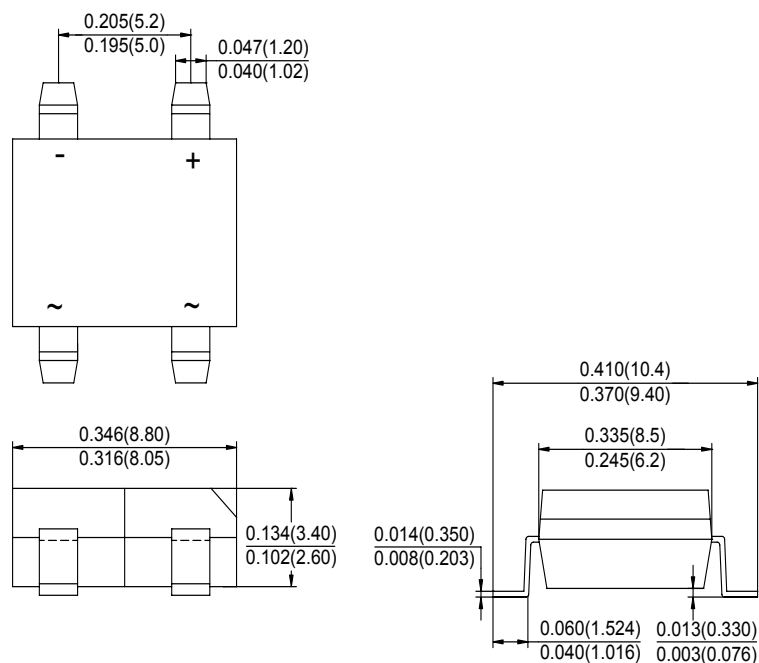
Notes: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47x0.47" (12 x 12mm) copper pads.

Performance Curves



Package Outline Information

CASE: SDB-1



Dimensions in inches (mm)