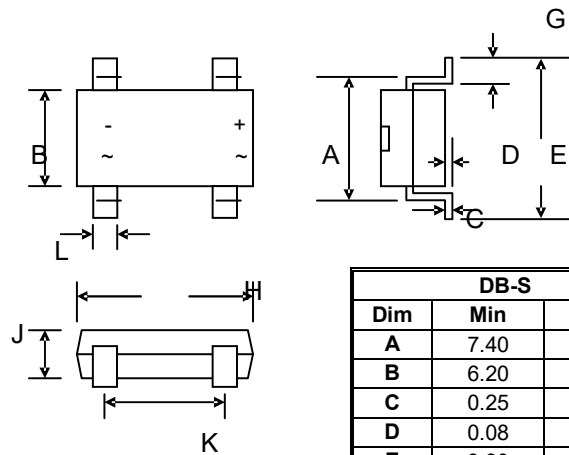



Features

Glass Passivated Die Construction
 Low Forward Voltage Drop
 High Current Capability
 High Surge Current Capability
 Designed for Surface Mount Application
 Plastic Material – UL Recognition Flammability Classification 94V-O



Mechanical Data

Case: DB -S, Molded Plastic
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
 Polarity: As Marked on Case
 Weight: 1.0 grams (approx.)
 Mounting Position: Any
 Marking: Type Number
 **Lead Free: For RoHS / Lead Free Version,**

DB-S		
Dim	Min	Max
A	7.40	7.90
B	6.20	6.50
C	0.25	—
D	0.08	0.33
E	9.30	10.30
G	1.02	1.53
H	8.00	8.51
J	2.15	3.40
K	5.00	5.20
L	0.90	1.20
All Dimensions in mm		

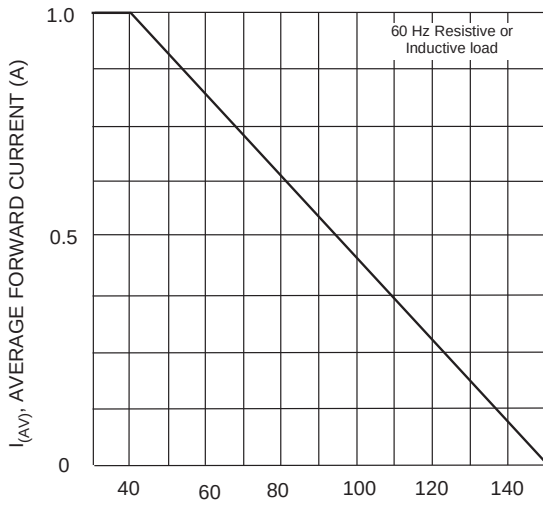
Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

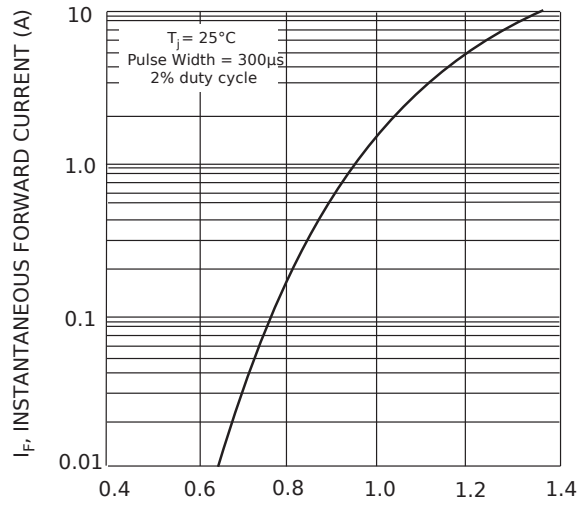
Characteristic	Symbol	DB 101S	DB 102S	DB 103S	DB 104S	DB 105S	DB 106S	DB 107S	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $\bar{I} = 40^\circ\text{C}$	I_o	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Forward Voltage per element @ $I_F = 1.0\text{A}$	V_{FM}	1.1							V
Peak Reverse Current @ $F = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T = 125^\circ\text{C}$	I_{RM}	500							μA
Typical Junction Capacitance per element (Note 1)	C_j	25							pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							$^\circ\text{C}$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 2. Mounted on PC board with 13mm² copper pad.

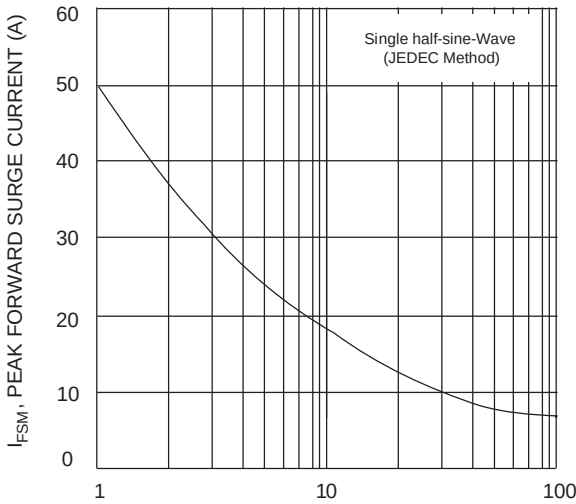
1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



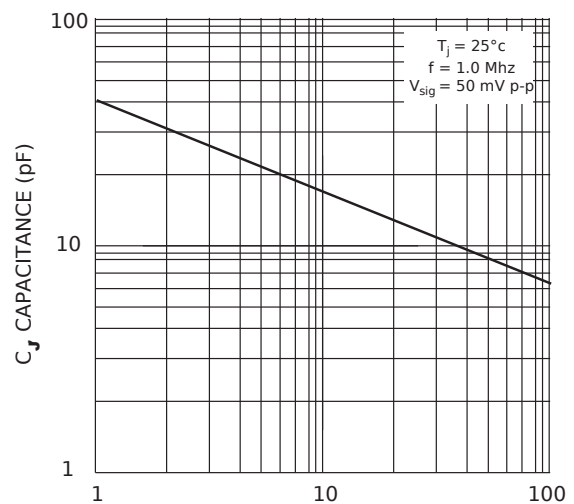
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Output Current Derating Curve



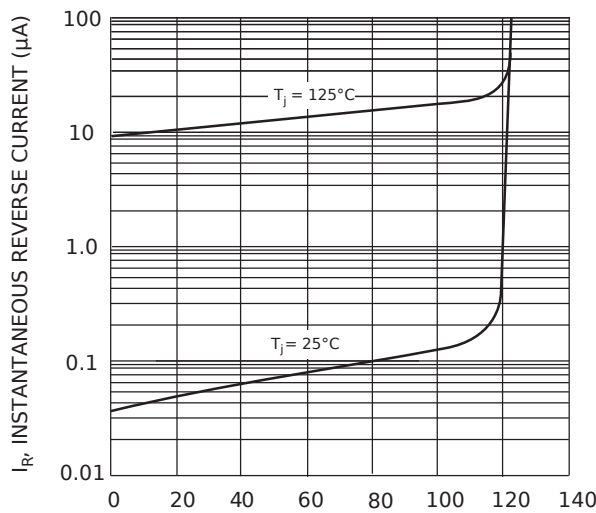
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typ Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_R REVERSE VOLTAGE (V)
Fig. 4 Typ Junction Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typ Reverse Characteristics (per element)