

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

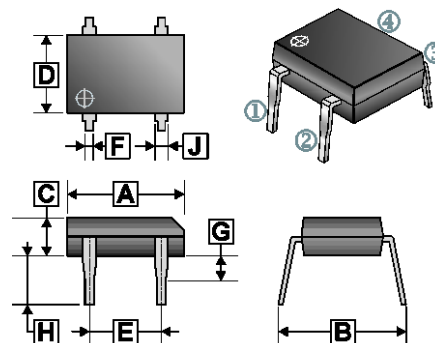
FEATURES

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application

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 number

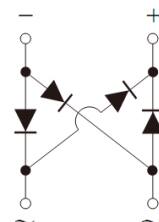
DB-M



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.95	8.35	F	0.40	0.60
B	8.50	9.10	G	2.00	2.20
C	2.10	2.50	H	4.55	4.95
D	6.10	6.50	J	0.95	1.20
E	4.90	5.30			

ORDER INFORMATION

Part Number	Type
DB101-C~DB107-C	Lead (Pb)-free and Halogen-free



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%.)

Parameter	Symbol	Part Number							Unit
		DB101 -C	DB102 -C	DB103 -C	DB104 -C	DB105 -C	DB106 -C	DB107 -C	
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	
DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	
Average Rectified Output Current ¹ @T _C =100°C	I _O	1							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	45							A
I ² t Rating for Fusing @t<8.3ms	I ² t	8.404							A ² s
Forward Voltage per element @I _F =1A	V _{FM}	1							V
Peak Reverse Current @T _J =25°C	I _R	5							μA
At Rated DC Blocking Voltage @T _J =125°C		100							
Typical Junction Capacitance ²	C _J	15							pF
Typical Thermal Resistance	R _{θJA}	40							°C/W
	R _{θJL}	15							
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150							°C

Notes:

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.

TYPICAL CHARACTERISTIC CURVES

Fig. 1 Output Current Derating Curve

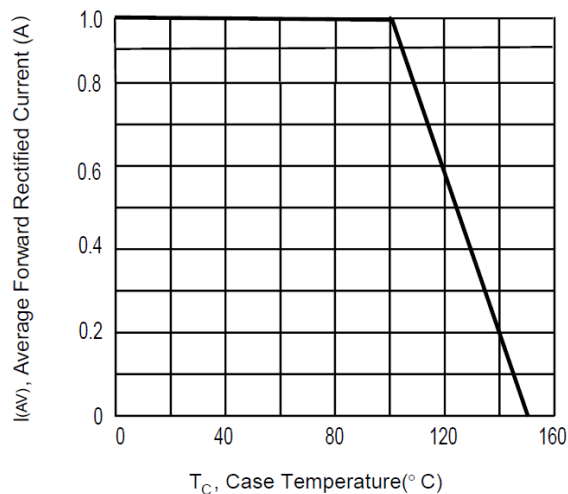


Fig. 2 Typical Forward Characteristics

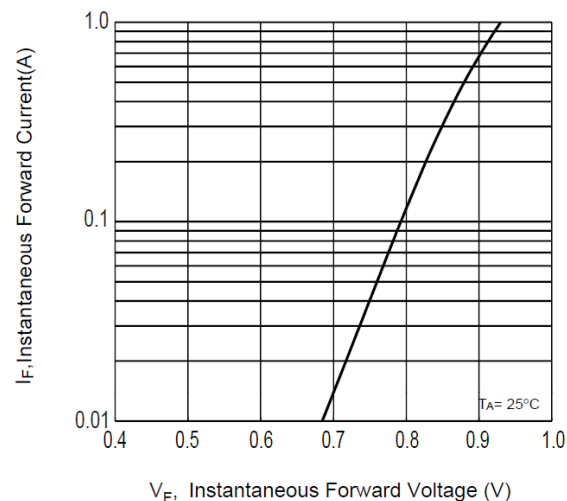


Fig.3 Maximum Peak Forward Surge Current

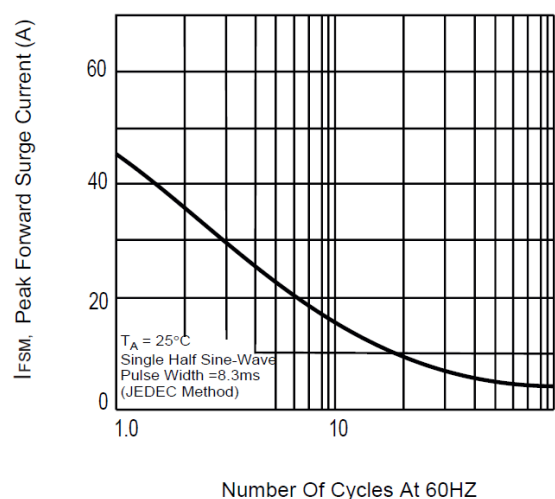


Fig.4 Typical Reverse Characteristics

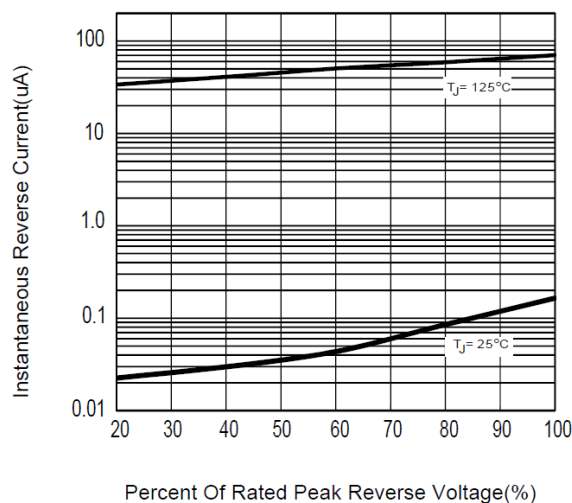


Fig. 5 Typical Junction Capacitance

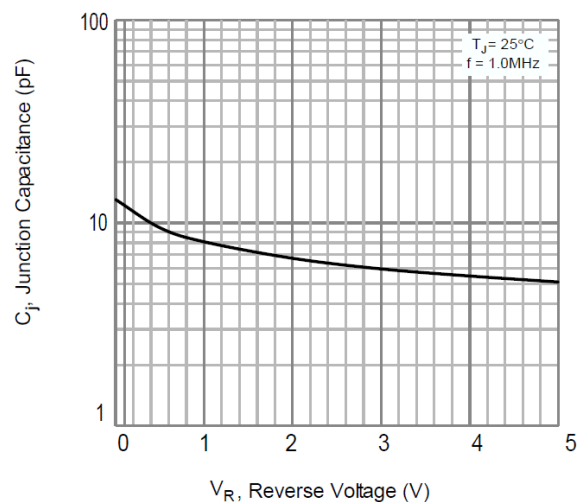


Fig.6 Mounting Pad Layout

