

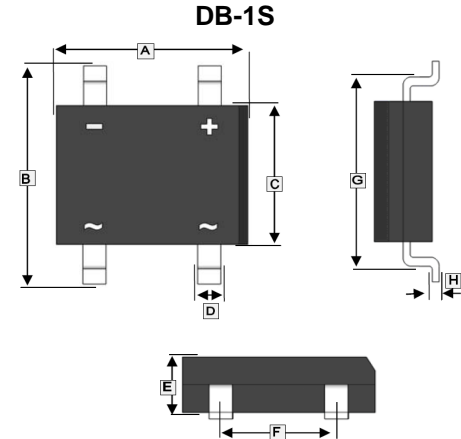
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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

APPLICATIONS

General Purpose 1 Phase Bridge
Rectifier Applications



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.10	8.80	E	2.80	3.40
B	9.60	10.3	F	5.00	5.20
C	6.20	6.50	G	8.1 TYP	
D	0.95	1.20	H	0.20	0.35

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, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60Hz Sine Wave	I_O	1							A
Surge (Non-Repetitive) Forward Current @60Hz Sine Wave , 1Cycle, $T_J=25^\circ\text{C}$	I_{FSM}	30							A
Maximum Forward Voltage @ $I_F=0.5\text{A}$	V_{FM}	1.05							V
Peak Reverse Current	I_{RRM}	10							μA
Current Squared Time @ $1\text{ms} \leq t < 8.3\text{ms}$, $T_J=25^\circ\text{C}$	i^2t	3.7							A^2s
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	68							$^\circ\text{C/W}$
Typical Thermal Resistance from Junction to Lead	$R_{\theta JL}$	15							
Operating and Storage Temperature Range	T_J, T_{STG}	-55~150							$^\circ\text{C}$

TYPICAL CHARACTERISTIC CURVES

FIG1: I_o - T_a Curve

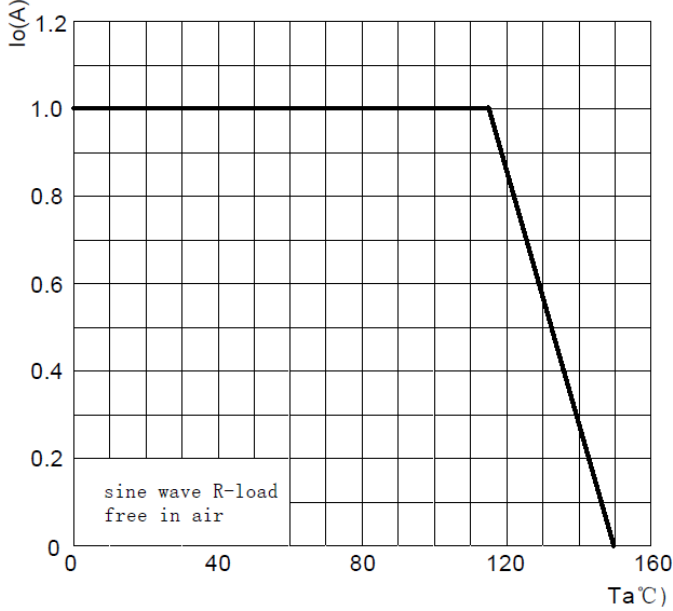


FIG2: Surge Forward Current Capadility

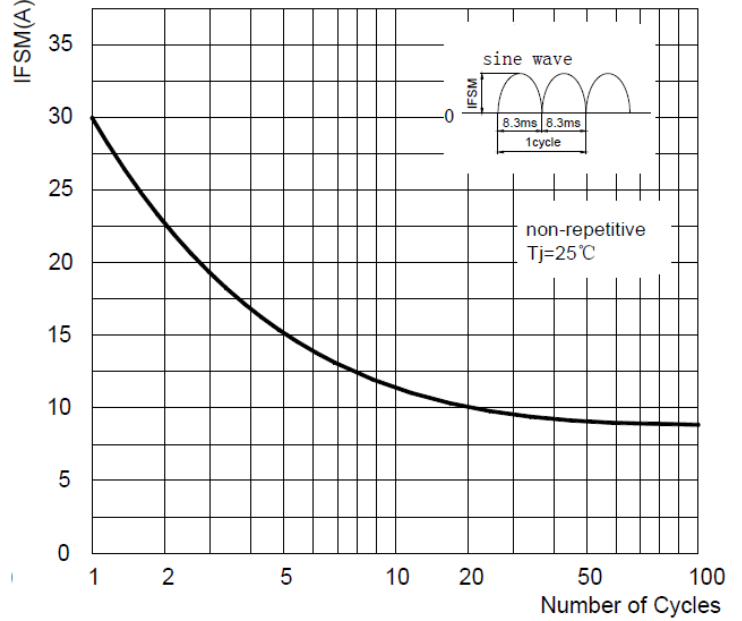


FIG3: Forward Voltage

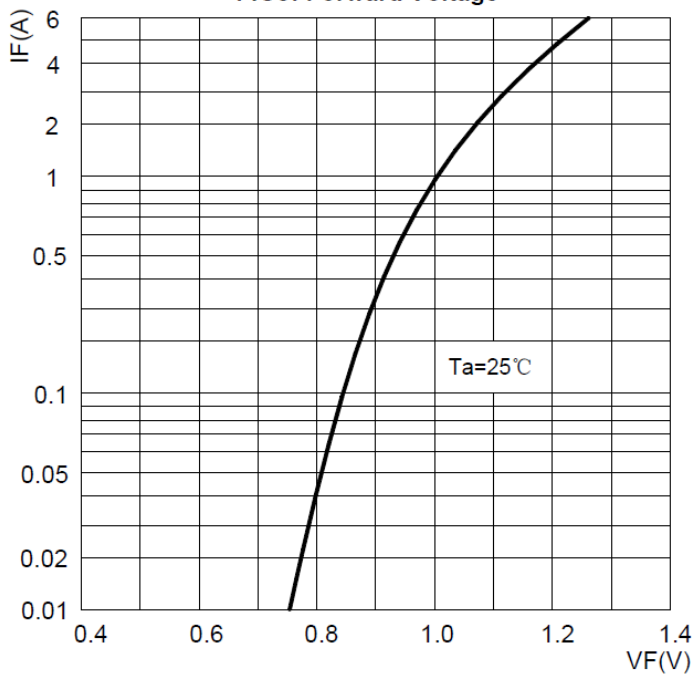


FIG4: Typical Reverse Characteristics

