

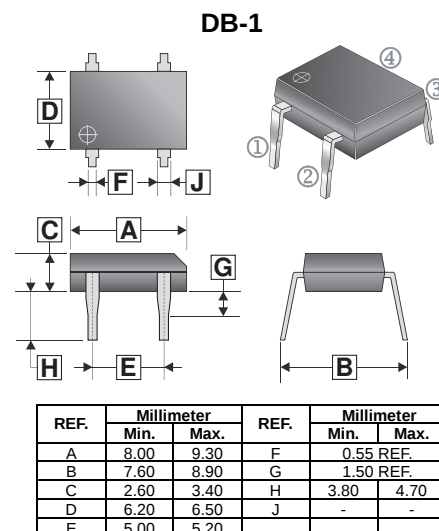
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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



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
		DB101	DB102	DB103	DB104	DB105	DB106	DB107	
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℃	I _{FSM}	30							A
Maximum Forward Voltage @I _F =0.5A	V _{FM}	1.05							V
Peak Reverse Current	I _{RRM}	10							μA
Current Squared Time @1ms≤t<8.3ms,T _J =25℃	I ² t	3.7							A ² s
Typical Thermal Resistance from Junction to Ambient	R _{θJA}	68							℃/W
Typical Thermal Resistance from Junction to Lead	R _{θJL}	15							
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150							℃

TYPICAL CHARACTERISTIC CURVES

FIG1: I_o - T_a Curve

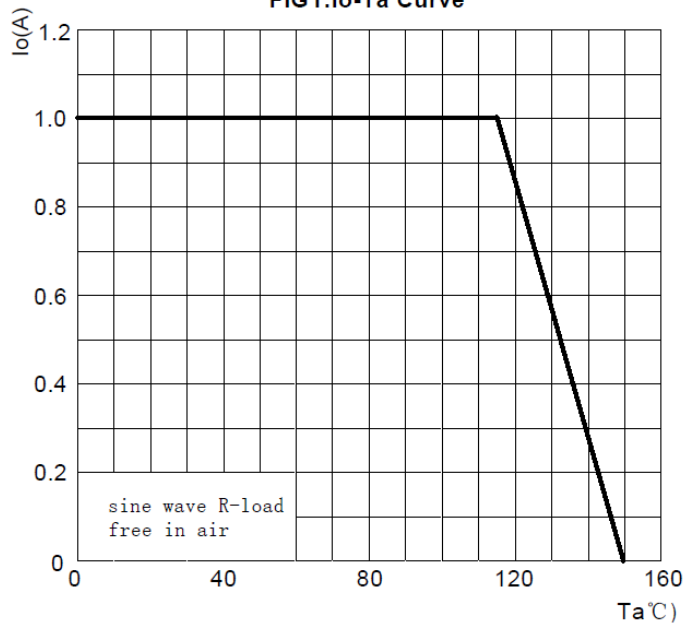


FIG2: Surge Forward Current Capability

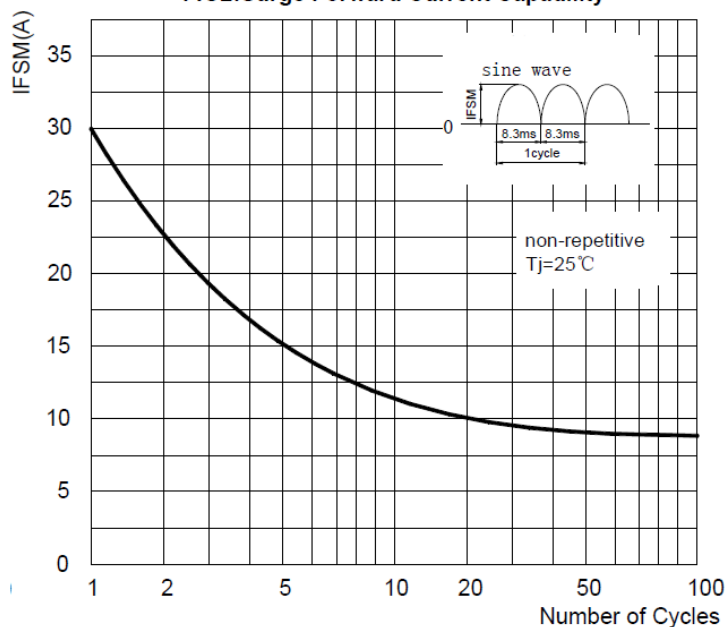


FIG3: Forward Voltage

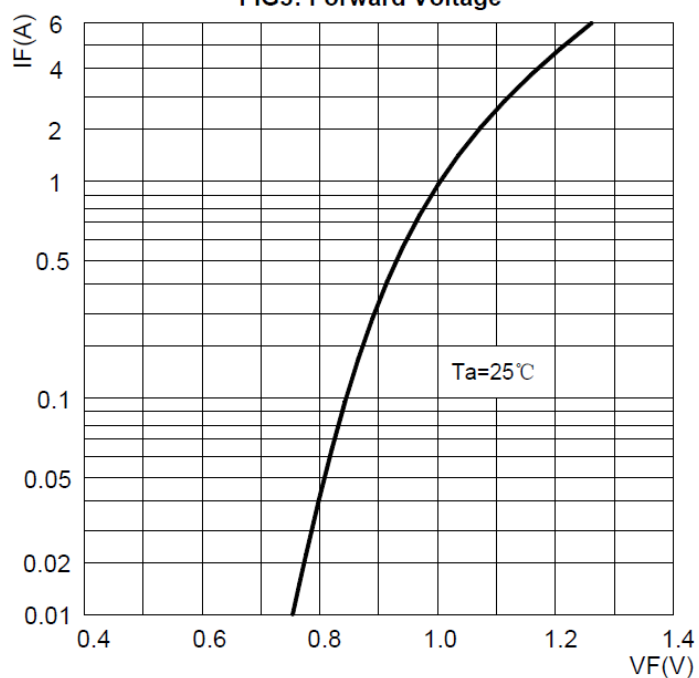


FIG4: Typical Reverse Characteristics

