Elektronische Bauelemente

DB201S ~ DB207S

50V ~ 1000V, 2A

Surface Mount Bridge Rectifiers

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

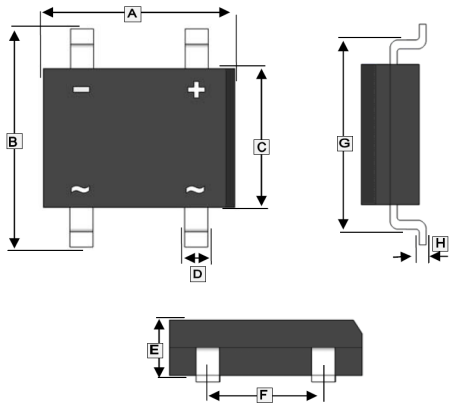
FEATURES

- 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

DB-1S



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℃ ambient temperature unless otherwis e specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		DB 201S	DB 202S	DB 203S	DB 204S	DB 205S	DB 206S	DB 207S	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60H_Z Sine Wave	I_O	2							A
Surge (Non-Repetitive) Forward Current @60H_Z Sine Wave,1Cycle,T_J=25℃	I_{FSM}	60							A
Peak Forward Voltage@ I_F=1A	V_{FM}	1.1							V
Peak Reverse Current	I_{RRM}	10							μA
Current Squared Time @1ms≦t<8.3ms,T_J=25℃	I^2t	15							A^2s
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	68							℃/W
Typical Thermal Resistance from Junction to Lead	$R_{\theta JL}$	15							
Operating and Storage Temperature Range	T_J, T_{STG}	-55~150							℃

TYPICAL CHARACTERISTIC CURVES

FIG1:Io-TL Curve

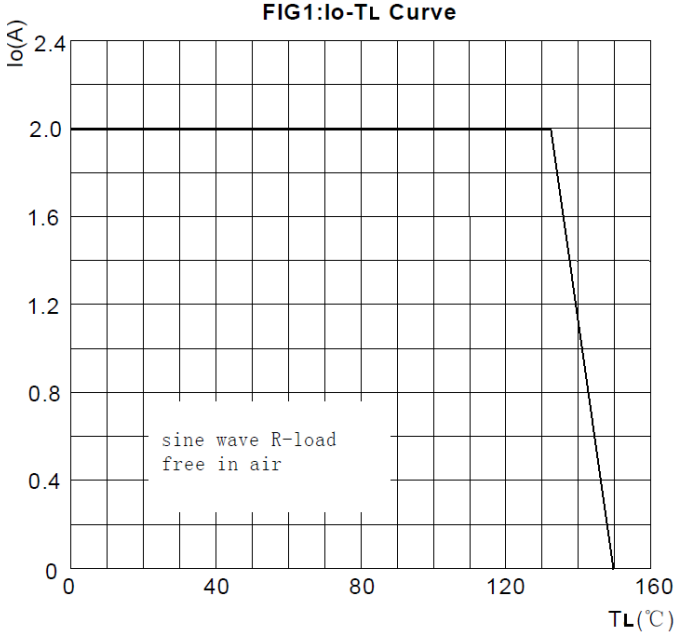


FIG2:Surge Forward Current Capadility

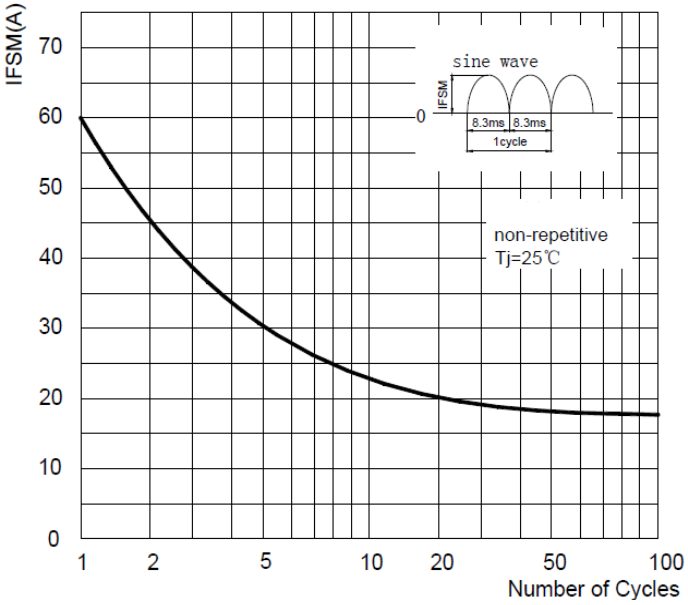


FIG3: Forward Voltage

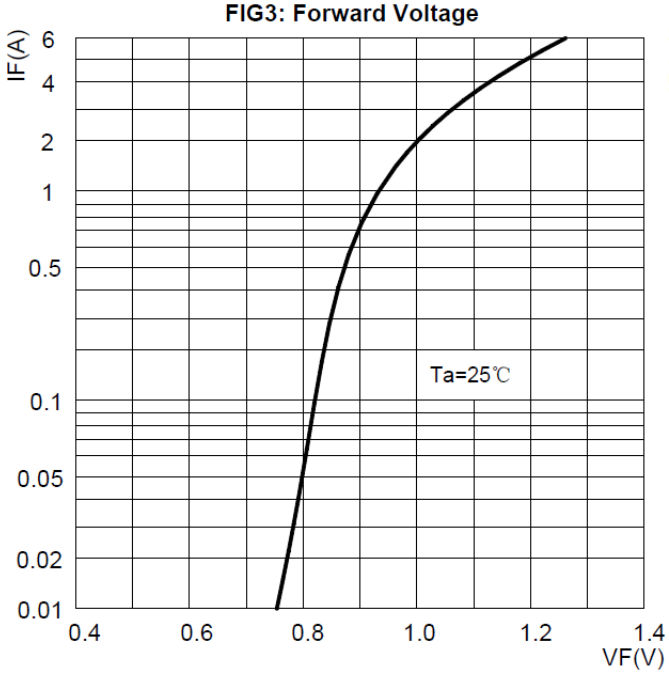


FIG4:Typical Reverse Characteristics