Elektronische Bauelemente

DB1501 ~ DB1507

50V ~ 1000V, 1.5A

Surface Mount Bridge Rectifiers

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

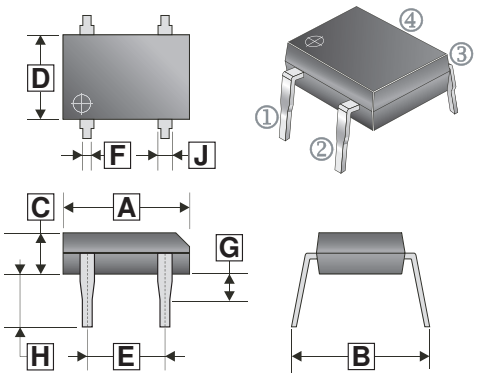
FEATURES

- 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-1



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.00	9.30	F	0.55 REF.	
B	7.60	8.90	G	1.50 REF.	
C	2.60	3.40	H	3.80	4.70
D	6.20	6.50	J	-	-
E	5.00	5.20			

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
		1501	1502	1503	1504	1505	1506	1507	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60H_Z Sine Wave	I_O	1.5							A
Surge (Non-Repetitive) Forward Current @60H_Z Sine Wave,1Cycle,T_J=25℃	I_{FSM}	45							A
Maximum Forward Voltage@ I_F=1.5A	V_{FM}	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_{RRM}	10							μA
Current Squared Time @1ms≦t<8.3ms,T_J=25℃	I^2t	8.5							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-Ta Curve

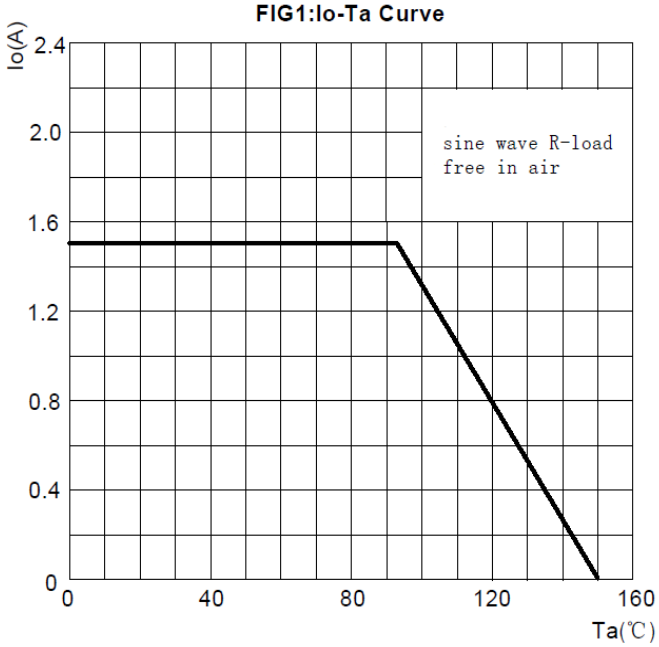


FIG2:Surge Forward Current Capadility

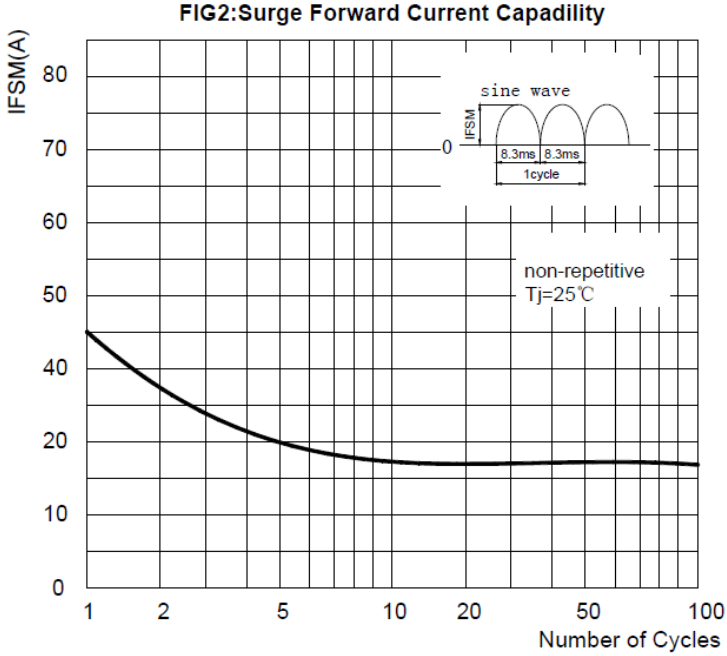


FIG3: Forward Voltage

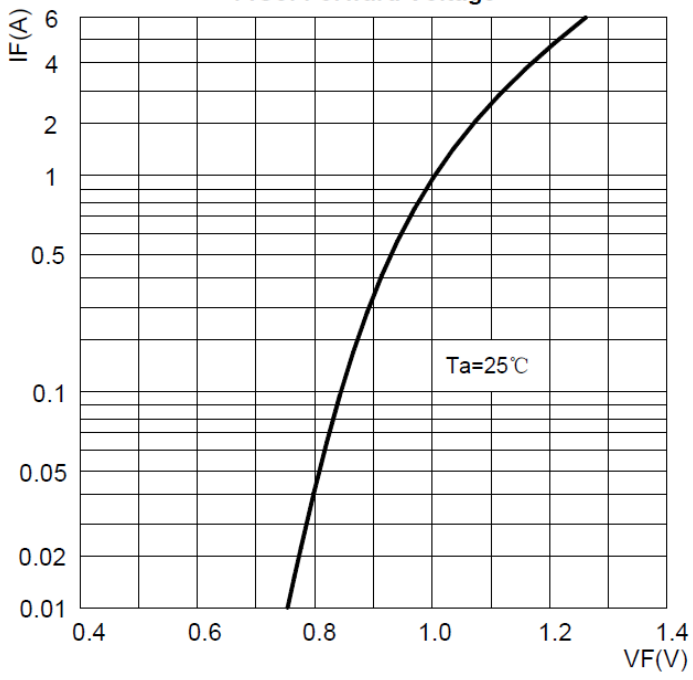


FIG4:Typical Reverse Characteristics