

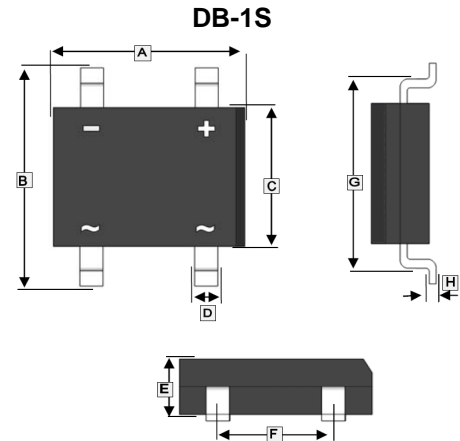
RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

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
		1501S	1502S	1503S	1504S	1505S	1506S	1507S	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60Hz Sine Wave	I_O	1.5							A
Surge (Non-Repetitive) Forward Current @60Hz Sine Wave, 1Cycle, $T_J=25^\circ\text{C}$	I_{FSM}	45							A
Maximum Forward Voltage @ $I_F=0.75\text{A}$	V_{FM}	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_{RRM}	10							μA
Current Squared Time @ $1\text{ms} \leq t < 8.3\text{ms}, T_J=25^\circ\text{C}$	I^2t	8.5							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:Io-Ta Curve

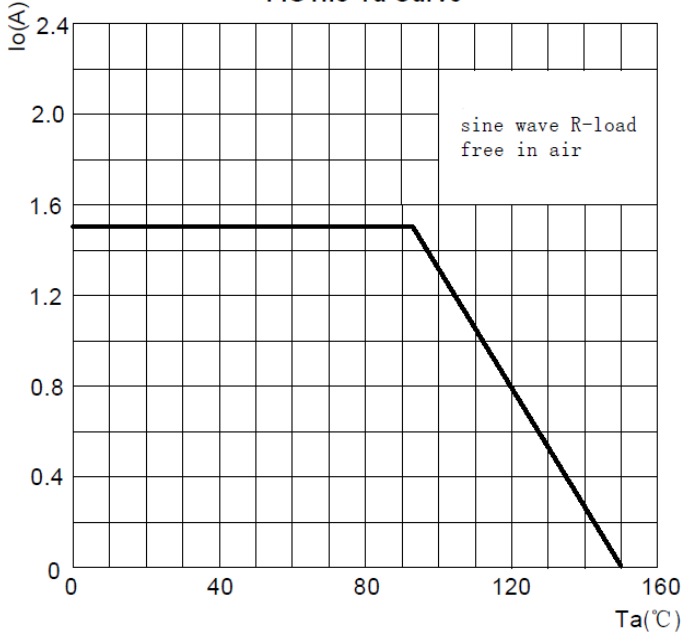


FIG2:Surge Forward Current Capability

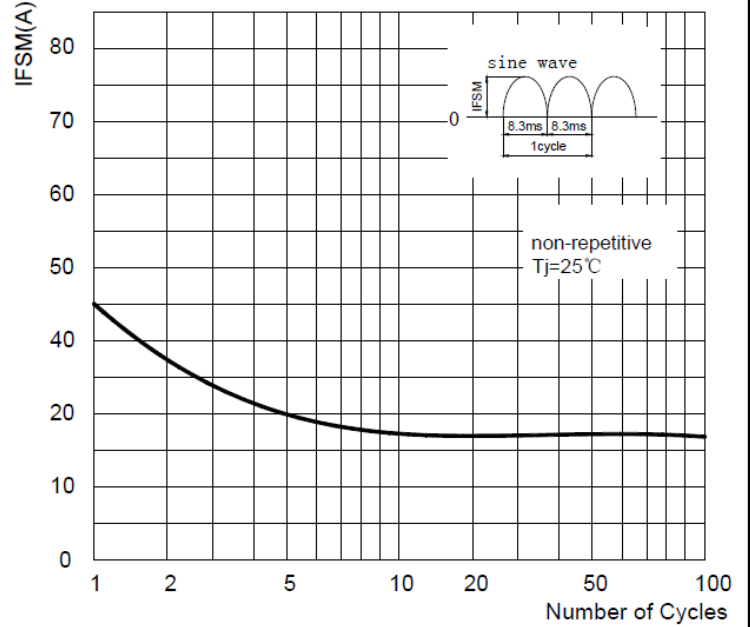


FIG3: Forward Voltage

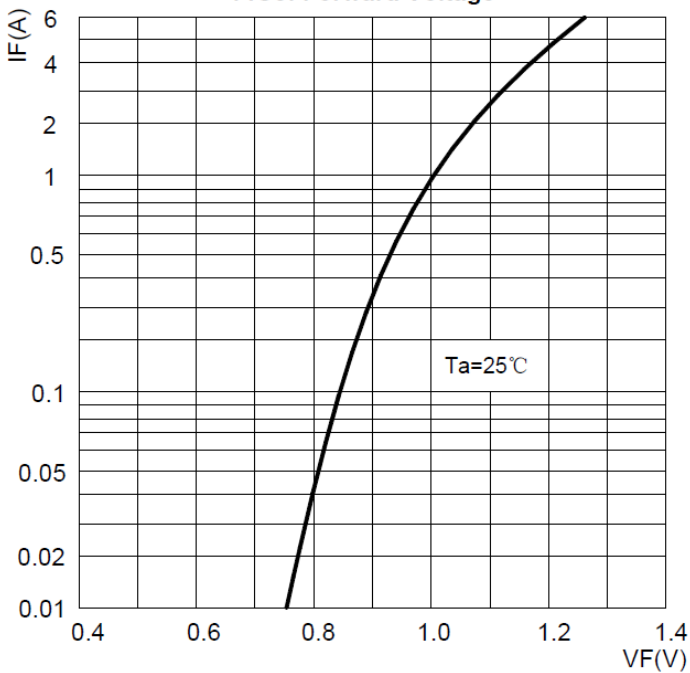


FIG4:Typical Reverse Characteristics

