

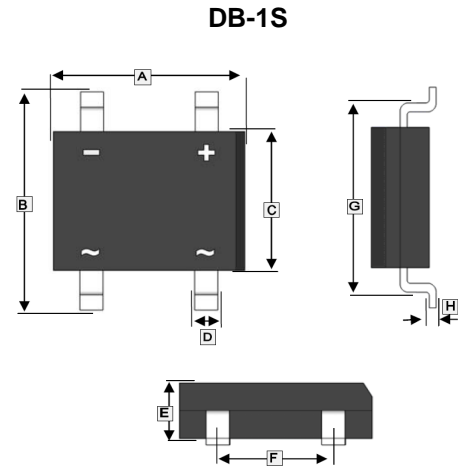
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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 |
|---|-----------------|-------------|---------|---------|---------|---------|---------|---------|----------------------|
| | | 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 @60Hz Sine Wave | I_O | 2 | | | | | | | A |
| Surge (Non-Repetitive) Forward Current @60Hz Sine Wave, 1Cycle, $T_J=25^\circ\text{C}$ | I_{FSM} | 60 | | | | | | | A |
| Peak Forward Voltage @ $I_F=1\text{A}$ | V_{FM} | 1.1 | | | | | | | 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 | 15 | | | | | | | 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_L Curve

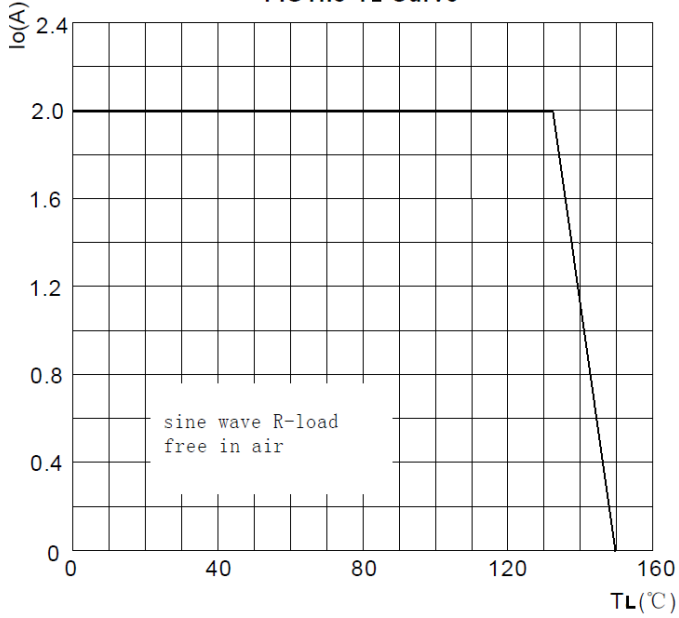


FIG2: Surge Forward Current Capability

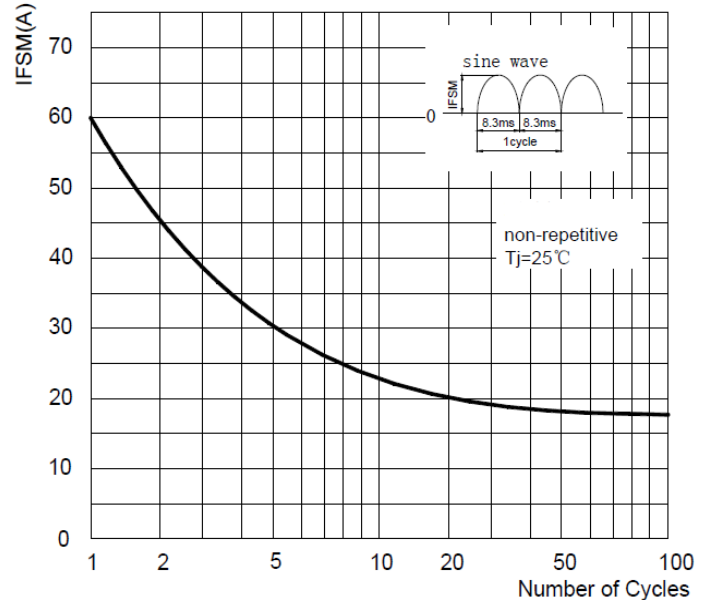


FIG3: Forward Voltage

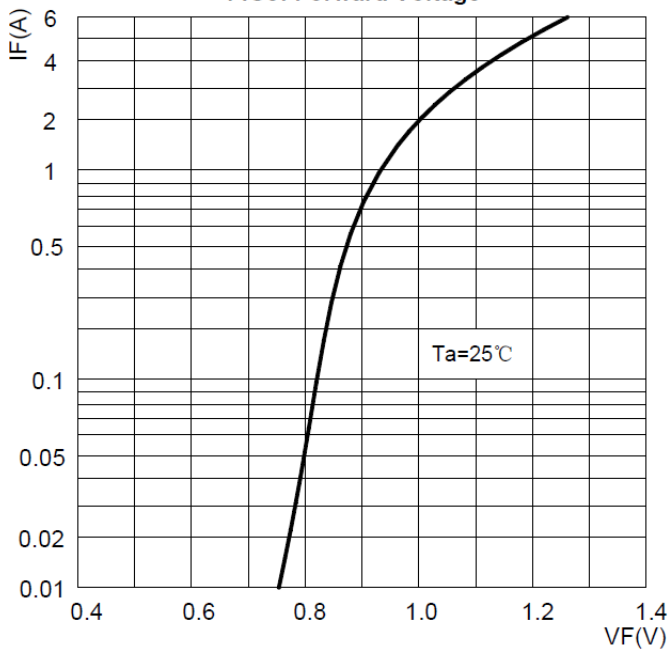


FIG4: Typical Reverse Characteristics

