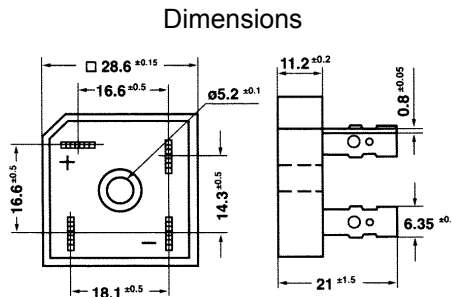


S1PDB35005 thru S1PDB3518

Single Phase Bridge Rectifiers Modules



| | V _{RRM} V | V _{RMS} V | V _{DC} V |
|------------|-----------------------|-----------------------|----------------------|
| S1PDB35005 | 50 | 35 | 50 |
| S1PDB3501 | 100 | 70 | 100 |
| S1PDB3502 | 200 | 140 | 200 |
| S1PDB3504 | 400 | 280 | 400 |
| S1PDB3506 | 600 | 420 | 600 |
| S1PDB3508 | 800 | 560 | 800 |
| S1PDB3510 | 1000 | 700 | 1000 |
| S1PDB3512 | 1200 | 840 | 1200 |
| S1PDB3514 | 1400 | 980 | 1400 |
| S1PDB3516 | 1600 | 1120 | 1600 |
| S1PDB3518 | 1800 | 1260 | 1800 |

| Symbol | Characteristics | Maximum Ratings | Unit |
|--------------------------------|--|-----------------|------------------|
| I <sub(av)< sub=""></sub(av)<> | Maximum Average Forward Rectified Current @T _c =50°C (With Heatsink) | 35.0 | A |
| I _{FSM} | Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD) | 400 | A |
| V _F | Maximum Forward Voltage At 17.5A DC | 1.1 | V |
| I _R | Maximum DC Reverse Current At Rated DC Blocking Voltage @T _J =25°C @T _J =125°C | 5.0 500 | uA |
| I ² t | I ² t Rating For Fusing (t < 8.3 ms), (Note 1) | 660 | A ² S |
| C _J | Typical Junction Capacitance Per Element (Note 2) | 150 | pF |
| R _{θJC} | Typical Thermal Resistance (Note 3) | 1.2 | °C/W |
| T _J | Operating Temperature Range | -55 to +150 | °C |
| T _{stg} | Storage Temperature Range | -55 to +150 | °C |

NOTES: 1. Measured At Non-repetitive, For Greater Than 1ms And Less Than 8.3ms.
 2. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.
 3. Device Mounted On 300mm x 300mm x 1.6mm Cu Plate Heatsink.

FEATURES

- * Rating to 1000V PRV
- * High efficiency
- * Glass passivated chip junction
- * Electrically isolated metal case for maximum heat dissipation
- * UL file NO.310749
- * RoHS compliant

MECHANICAL DATA

- * Case: Molded plastic with Heatsink internally mounted in the bridge encapsulation
- * Polarity: As marked on Body
- * Mounting: Hole for # 10 screw
- * Weight: 18 grams



S1PDB35005 thru S1PDB3518

Single Phase Bridge Rectifiers Modules

FIG.1 - FORWARD CURRENT DERATING CURVE

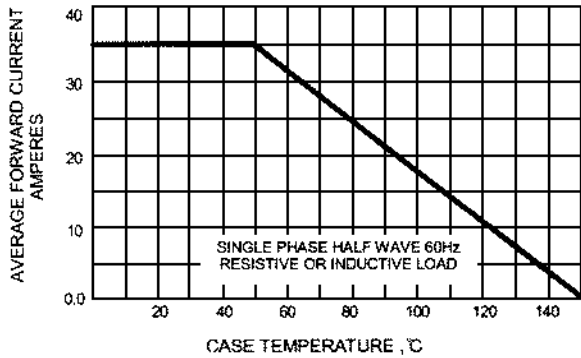


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

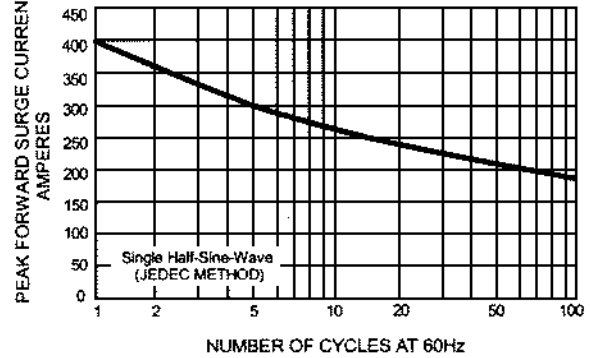


FIG.3 - TYPICAL JUNCTION CAPACITANCE

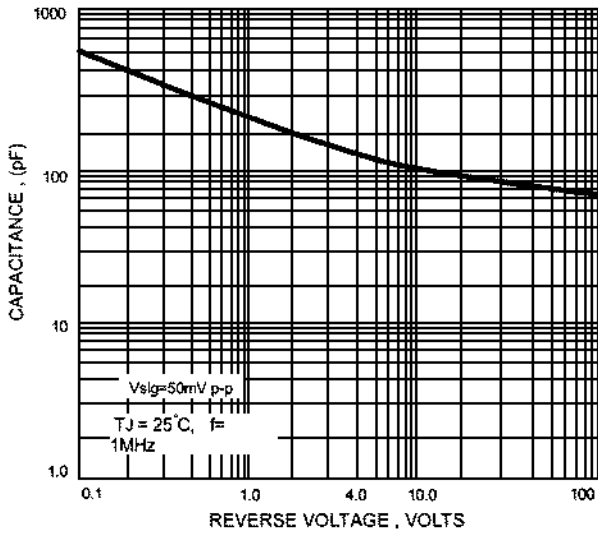


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

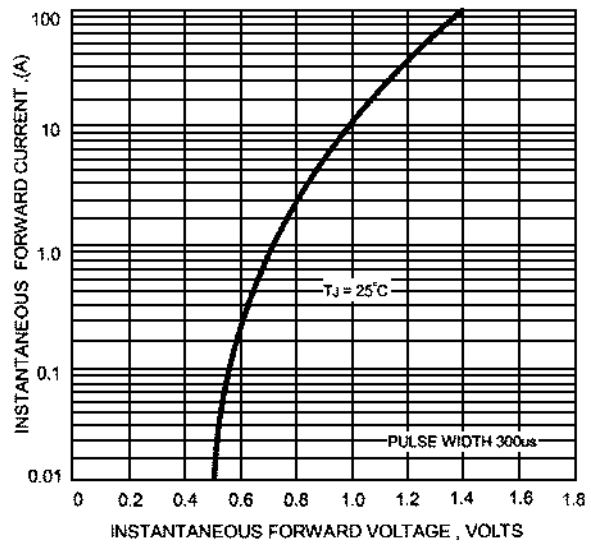


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

