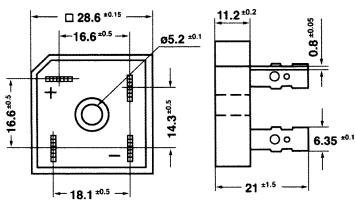
## S1PDB25005 thru S1PDB2516

### **Single Phase Bridge Rectifiers**



#### $V_{RRM}$ **V**RWS VDC ٧ 50 35 50 S1PDB25005 S1PDB2502 200 140 200 400 S1PDB2504 280 400 600 420 S1PDB2506 600 S1PDB2508 800 560 800 S1PDB2512 1200 840 1200 S1PDB2516 1600 1120 1600

# Dimensions



Symbol	Characteristics	Maximum Ratings	Unit
I(AV)	Maximum Average Forward Rectified Current @Tc=60°C (With Heatsink)	25.0	А
IFSM	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	350	А
VF	Maximum Forward Voltage At 12.5A DC	1.1	V
lR	Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	5.0 500	uA
l <sup>2</sup> t	I <sup>2</sup> t Rating For Fusing (t < 8.3 ms), (Note 1)	374	A <sup>2</sup> S
CJ	Typical Junction Capacitance Per Element (Note 2)	130	pF
Rejc	Typical Thermal Resistance (Note 3)	1.3	°C/W
TJ	Operating Temperature Range	-55 to +150	°C
Тѕтс	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 1600V PRV
- \* High efficiency
- \* Glass passivated chip junction
- \* Electrically isolated metal case for maximum heat dissipation
- \* 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



# S1PDB25005 thru S1PDB2516

### **Single Phase Bridge Rectifiers**

