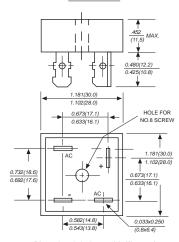


MP50005 THRU MP5010

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 50.0 Amperes

KBPC-35



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,at 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Metal case

Terminals: Plated 0.25" (6.35mm)lug.

Polarity: Polarity symbols marked on case

Mounting:Thru hole for #8 screw,20in.-lbs. torque max.

Weight: 1.02 ounce, 29 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for current capacitive load current derate by 20%.

| | | | | | | | MD | |
|------------------|--|--|--|--|---|---|--|--|
| SYMBOLS | MP 50005 | MP 5001 | MP 5002 | MP 5004 | MP 5006 | MP 5008 | MP 5010 | UNITS |
| Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| l(AV) | 50 | | | | | | | Amps |
| | | | | | | | | |
| IFSM | Ifsm 400.0 | | | | | | | Amps |
| | | | | | | | | |
| l ² t | 664 | | | | | | | A ² s |
| VF | 1.1 | | | | | | | Volts |
| lo. | 10 | | | | | | | μΑ |
| IR I | 1.0 | | | | | | | mA |
| Viso | 2500 | | | | | | | Vac |
| RθJA | 2.0 | | | | | | °C/W | |
| TJ | -65 to +150 | | | | | | °C | |
| Тѕтс | -65 to +150 | | | | | | | °C |
| | VRRM VRMS VDC I(AV) IFSM I ² t VF IR VISO RθJA TJ | VRRM 50 VRMS 35 VDC 50 I(AV) IFSM I²t VF IR VISO R@JA TJ TJ TJ TJ TJ TJ TJ | VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM I²t VF IR VISO R⊕JA TJ TJ TOO TOO TJ TJ TOO TOO TOO TJ TJ | Variable Simple Simple | Var South South | SYMBOLS S0005 S001 S002 S004 S006 VRRM S0 | SYMBOLS 50005 5001 5002 5004 5006 5008 VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 50 IFSM 400.0 I²t 664 VF 1.1 IR 1.0 VISO 2500 R⊕JA 2.0 TJ -65 to +150 | SYMBOLS SOOS SOOS |

1.Unit mounted on 9" x 3.5" x4.6" thick(23cmx9cmx11.8cmcm)Al.plate.
2.Bolt dowm on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #8 screw.

Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

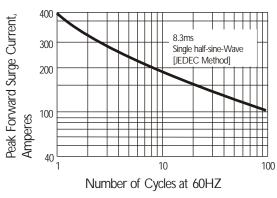


Fig. 3 Typical Instantaneous Forward Characteristics

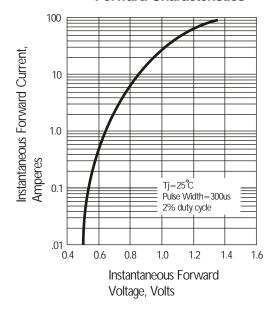
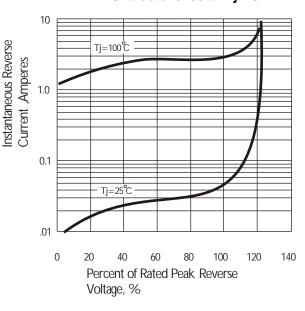


Fig. 4 Typical Reverse Characteristics at Ti=25°C



2014-03 01版

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