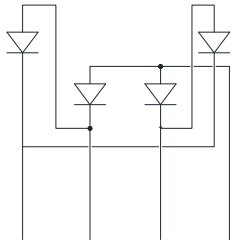
RoHS
COMPLIANT



- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

- : D3K
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ ($T_a$=25 Unless otherwise specified

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Device marking code | | | D3UB05A | D3UB10A | D3UB20A | D3UB40A | D3UB60A | D3UB80A | D3UB100A |
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Maximum RMS Voltage | $V_{RMS}$ | V | 35 | 70 | 140 | 280 | 420 | 560 | 700 |
| Maximum DC blocking Voltage | $V_{DC}$ | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average rectified output current @60Hz sine wave, R-load — With heatsink Tc =140 | $I_O$ | A | 3.0 | | | | | | |
| Average rectified output current @60Hz sine wave, R-load — Without heatsink Ta =25 | $I_O$ | A | 1.2 | | | | | | |
| Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25 | $I_{FSM}$ | A | 100 | | | | | | |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 | $I_{FSM}$ | A | 200 | | | | | | |
| Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode | $I^2t$ | $A^2s$ | 41 | | | | | | |
| Storage temperature | $T_{stg}$ | | -55 ~ +150 | | | | | | |
| Junction temperature | $T_j$ | | -55 ~ +150 | | | | | | |
| Dielectric strength @ Terminals to case, AC 1 minute | Vdis | KV | 2 | | | | | | |
| Mounting torque @Recommend torque 5kg cm | Tor | kg cm | 8 | | | | | | |

■ $T_a$=25 Unless otherwise specified

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum instantaneous forward voltage drop per diode | $V_F$ | V | $I_{FM}$=1.5A | 1.0 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | $I_R$ | μA | $T_j$=25 | 5 | | | | | | |
| | | | $T_j$=125 | 100 | | | | | | |

| |
|---|
| Max |
| 14.30 |
| 11.30 |
| 7.40 |
| 5.50 |
| 1.45 |
| 0.85 |
| 3.90 |
| 13.50 |
| 3.60 |
| 3.40 |

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