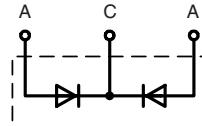


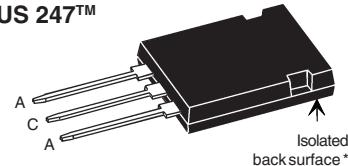
Power Schottky Rectifier with common cathode

I_{FAV} = 2x40 A
V_{RRM} = 60 V
V_F = 0.51 V

| V _{RSM} | V _{RRM} | Type |
|------------------|------------------|---------------|
| V | V | |
| 60 | 60 | DSSK 80-006BR |



ISOPLUS 247™



C = Cathode, A = Anode

| Symbol | Conditions | Maximum Ratings | |
|-----------------------|--|-----------------|------|
| I _{FRMS} | | 70 | A |
| I _{FAV} | T _C = 120°C; rectangular, d = 0.5 | 40 | A |
| I _{FAV} | T _C = 120°C; rectangular, d = 0.5; per device | 80 | A |
| I _{FSM} | T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine | 600 | A |
| E _{AS} | I _{AS} = 20 A; L = 100 µH; T _{VJ} = 25°C; non repetitive | 20 | mJ |
| I _{AR} | V _A = 1.5 • V _{RRM} typ.; f=10 kHz; repetitive | 2 | A |
| (dV/dt) _{cr} | | tbd | V/µs |
| T _{VJ} | | -55...+150 | °C |
| T _{VJM} | | 150 | °C |
| T _{stg} | | -55...+150 | °C |
| P _{tot} | T _C = 25°C | 155 | W |
| F _c | mounting force with clip | 20...120 | N |
| V _{ISOL} | 50/60 Hz, RMS, t = 1 minute, leads-to-tab | 2500 | V~ |
| Weight | typical | 6 | g |

| Symbol | Conditions | Characteristic Values | |
|-------------------|---|-----------------------|-------------|
| | | typ. | max. |
| I _R | ① V _R = V _{RRM} ; T _{VJ} = 25°C V _R = V _{RRM} ; T _{VJ} = 100°C | 22 200 | mA mA |
| V _F | I _F = 40 A; T _{VJ} = 125°C I _F = 40 A; T _{VJ} = 25°C I _F = 80 A; T _{VJ} = 125°C | 0.51 0.55 0.74 | V V V |
| R _{thJC} | | 0.8 | K/W |
| R _{thCH} | | 0.25 | K/W |

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %
Data according to IEC 60747 and per diode unless otherwise specified

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Isolated and UL registered E153432

Applications

- Rectifiers in switch mode power supplies (SMPS)
- Free wheeling diode in low voltage converters

Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses

Dimensions see Outlines.pdf