

Dual Common Cathode Low VF Schottky
Reverse Voltage: 200V
Forward Current: 20 Amp
Features

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High forward surge capability
- Halogen-free according to IEC 61249-2-21 definition
- Compliant to RoHS Directive 2011/65/EU

Mechanical Data
● Package: ITO-220AB

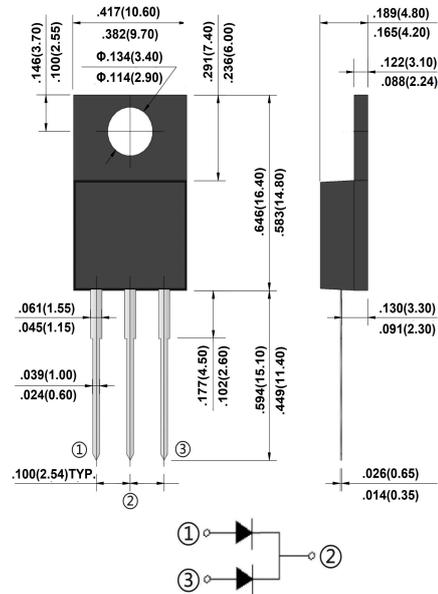
Molding compound meets UL 94 V-0 flammability rating

● Terminals: Matte tin plated leads,
solderable per JESD22-B102

● Polarity: As marked

Typical Applications

- Switching mode power supply (SMPS)
- Adapters
- DC to DC converters

ITO-220AB


Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

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

| Parameter&Test Conditions | | SYM. | MBR20L200CT | Unit |
|-----------------------------------------------------------------------------------|------------|--------------------|-------------|------|
| Device marking code | | | MBR20L200CT | |
| Maximum Recurrent Peak Reverse Voltage | | V _{RRM} | 200 | V |
| Maximum RMS Voltage | | V _{RMS} | 140 | V |
| Maximum DC Blocking Voltage | | V _{DC} | 200 | V |
| Average rectified output current @60Hz sine wave, Resistance load(FIG.1) | Per Diode | I _{O(AV)} | 10.0 | A |
| | Per Device | | 20.0 | |
| Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load | | I _{FSM} | 150 | A |
| Maximum Thermal Resistance, Junction To Ambient | | R _{θJA} | 60 | °C/W |
| Operating junction range | | T _J | -55 ~ +150 | °C |
| Storage temperature range | | T _{STG} | -55 ~ +150 | °C |

Electrical Characteristics (Ta=25°C Unless otherwise specified)

| Parameter&Test Conditions | | SYM. | MBR20L200CT | Unit |
|-------------------------------------------------------------------|-------------------------------|-----------------|-------------|------|
| Maximum Instantaneous Forward Voltage per diode(Note1) | IF=10A, T _J =25°C | V _{FM} | 0.88 | V |
| | IF=10A, T _J =125°C | | 0.77 | |
| | IF=20A, T _J =25°C | | 0.97 | |
| | IF=20A, T _J =125°C | | 0.88 | |
| Maximum DC reverse current at rated DC blocking voltage per diode | TA = 25°C | I _R | 0.01 | mA |
| | TA = 125°C | | 10 | |

Notes:

1. Pulse test with PW=300μs, 2% duty cycle.
2. The typical data above is for reference only.

Rating and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED

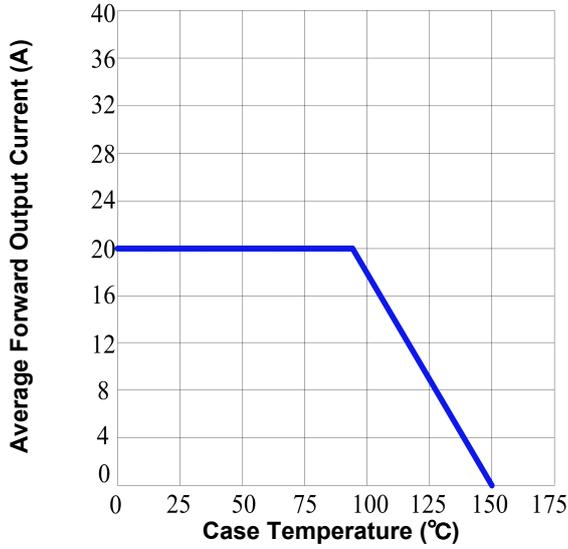


FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

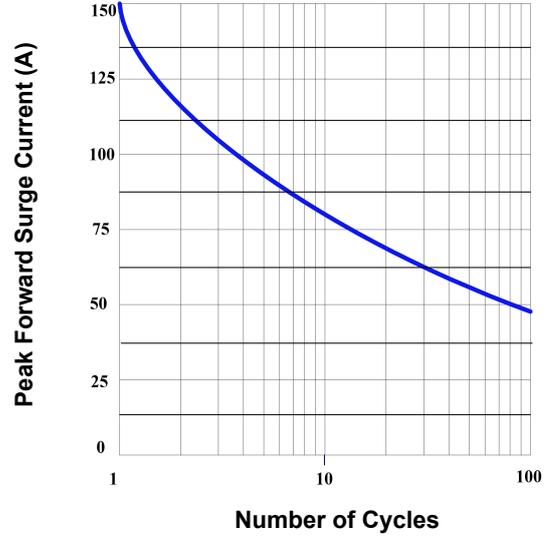


FIG. 3- TYPICAL FORWARD VOLTAGE

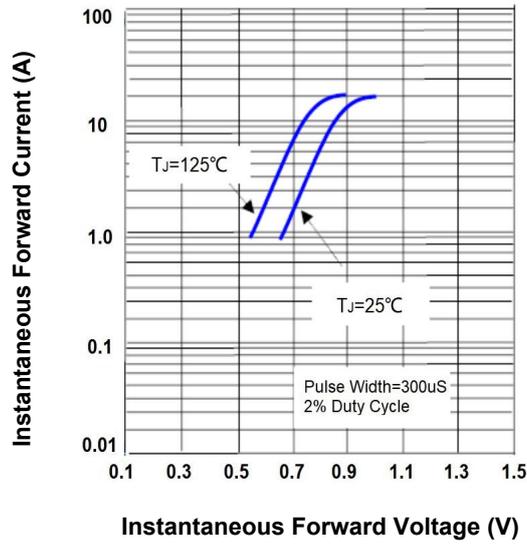
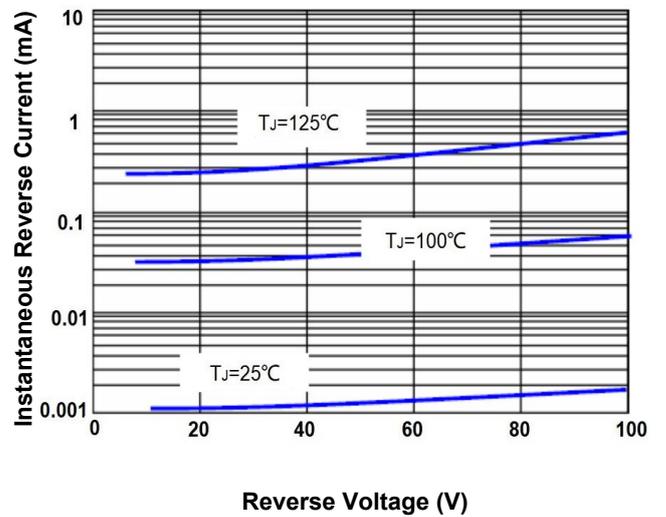


FIG. 4- TYPICAL REVERSE LEAKAGE



The curve above is for reference only.



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