

# NEWSLETTER 007-2010

## High Power Low Vf-Schottky

### Features:

- Low power loss
- High efficiency and high current capability
- Low forward voltage drop
- Plastic material used carries UL classification 94V-0
- High surge current capability
- Guard Ring for transient protection
- For use in low voltage, high frequency inverter, free wheeling and polarity protection
- $T_j = -40 \dots +150^\circ\text{C}$
- RoHS-Compliant
- Qualified as per AEC-Q101
- High temperature soldering:  $260^\circ/10\text{s}$  at terminals
- MSL level 1 per J-STD-020C



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### Mechanical Data TO-220AB and ITO-220AB



- Terminals: Pure tin plated leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- Weight: TO 1.88g; ITO 1,70g
- Mounting Torque: 5in-lbs. max.
- Mounting position: Any



### Typical Applications:

- Industrial
- Automotive
- Solar



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### Available Parts

Package	Part No	VRM(V)	IO(A)
(I)TO-220AB	MBR(F)10L100CT	100	10
(I)TO-220AB	MBR(F)20L100CT	100	20
(I)TO-220AB	MBR(F)20L120CT	120	20
(I)TO-220AB	MBR(F)30L45CT	45	30
TO-220AB	MBR30L60CT	60	30
TO-220AB	MBR30L100CT	100	30
(I)TO-220AB	MBR(F)30L120CT	120	30

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### Cross References:

Package	Part No	Vishay	Diodes Inc.
TO-220AB	MBR10L100CT	-	SBR10U100CT
(I)TO-220AB	MBRF10L100CT	-	SBR10U100CTFP
TO-220AB	MBR20L100CT	V20100C	SBR20U100CT
(I)TO-220AB	MBRF20L100CT	VF20100C	SBR20U100CTFP
TO-220AB	MBR20L120CT	V20120C	-
(I)TO-220AB	MBRF20L120CT	VF20120C	-
TO-220AB	MBR30L45CT	-	SBR40U45CT
(I)TO-220AB	MBR30L45CT	-	-
TO-220AB	MBR30L60CT	-	SBR40U60CT
TO-220AB	MBR30L100CT	V30100C	-
TO-220AB	MBR30L120CT	V30120C	-
TO-220AB	MBRF30L120CT	VF30120C	-

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### Packaging Information:

- Available in Tubes
- Packaging Codes C0 = 50 pieces/tube