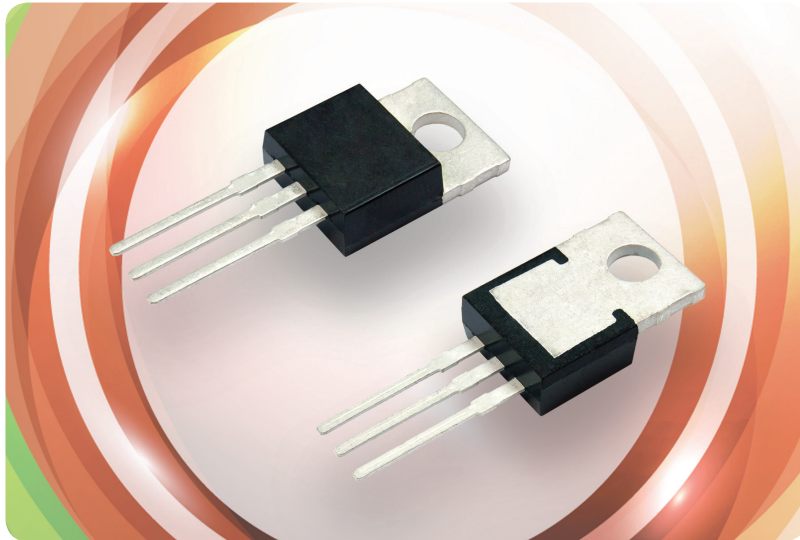




DIODES

TMBS[®] Rectifiers in TO-220AB Package

100 V and 120 V TMBS[®] Rectifiers Offer Forward Voltage Drop Down to 0.36 V to Reduce Power Losses and Increase Efficiency



KEY BENEFITS

- Forward voltage drop down to 0.36 V
- Current ratings: 30 A to 40 A
- Provide up to 20 mV lower forward voltage than previous-generation devices
- Offered in TO-220AB package
- Reduce power losses
- Improve efficiency
- Maximum operating junction temperature of +150 °C
- RoHS-compliant and halogen free

APPLICATIONS

- High frequency DC/DC converters, switching power supplies, freewheeling and OR-ing diodes, and reverse battery protection
- 65 W USB Type-C power delivery for notebook computers and mobile devices

RESOURCES

- Datasheet: please see table on next page for the list of products
- For technical questions contact DiodesAmericas@vishay.com, DiodesEurope@vishay.com, DiodesAsia@vishay.com
- Material categorization: for definitions of compliance, please see www.vishay.com/doc?99912





DIODES

TMBS[®] Rectifiers in TO-220AB Package

Vishay introduces four new 100 V and 120 V TMBS[®] Trench MOS Barrier Schottky rectifiers that provide up to 20 mV lower forward voltage than previous-generation devices. The new Vishay General Semiconductors devices offer current ratings of 30 A and 40 A in the TO-220AB package.

- Low forward voltage drop reduces power losses and improves efficiency

TMBS [®] RECTIFIERS						
SERIES	PACKAGE	$I_{F(AV)}$ (A)	V_{RRM} (V)	I_{FSM} (A)	V_F AT $I_F = 5$ A (125 °C)	T_J MAX. (°C)
V30100CI	TO-220AB	30	100	160	0.43 V	+150
V30120CI	TO-220AB	30	120	160	0.49 V	+150
V40100CI	TO-220AB	40	100	250	0.36 V	+150
V40120CI	TO-220AB	40	120	250	0.41 V	+150