

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

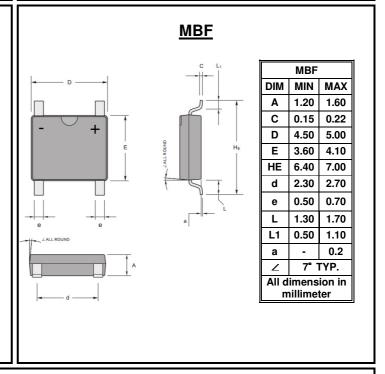
REVERSE VOLTAGE - 1000 Volts FORWARD CURRENT - 1 Ampere

FEATURES

- Glass Passivated Chip Juntion
- Reverse Voltage 1000 V
- Forward Current 1 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case Material: MBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 75 mg (Approximate)
- Marking: MB10F



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum DC blocking voltage	V _{DC}	1000	V
Average rectified output current per device	I _(AV)	1	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load @ T _A =25°C	I _{FSM}	30	Α
Operating and storage temperature range	T_J , T_{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX.	UNIT
Forward voltage (Note1)	$I_F = 1A$	$T_A = 25^{\circ}C$	V_{F}	1.1	V
Leakage current	V _R = 1000V	$T_A = 25$ °C $T_A = 125$ °C (Note1)	I _R	5 500	uA
Typical junction capacitance (Note 2)			CJ	13	pF

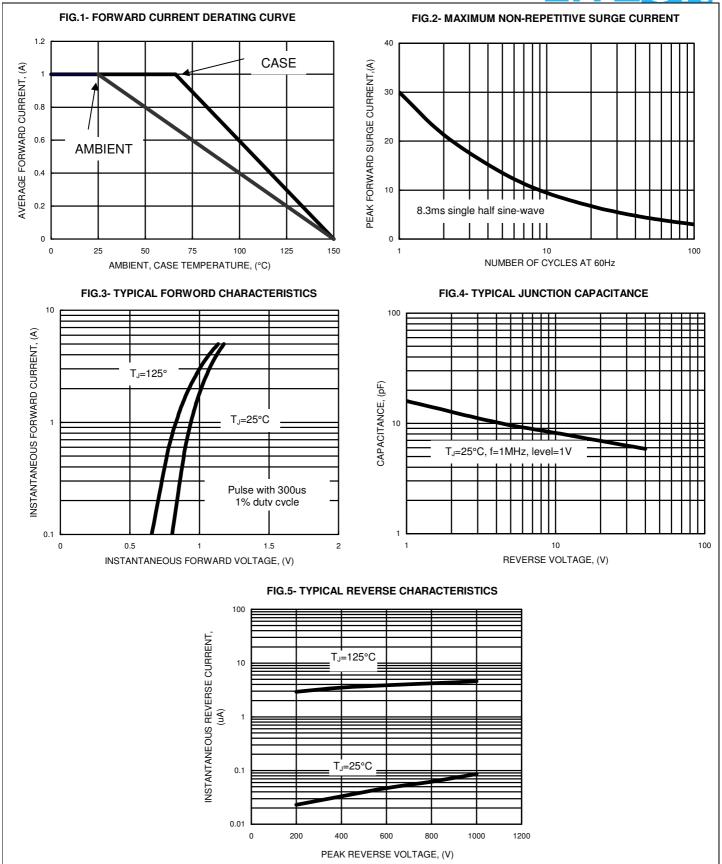
THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 3)	RthJ _C RthJ _A RthJ _L	50 80 45	°C/W
Note:	REV.1, Aug2016,K	REV.1, Aug2016,KBD49	

- (1) Perform static test after the temperature of oven is steady 20 minutes.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (3) Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on glass-epoxy PC board with 2.7 X 3.7mm₂ copper pad per pin

RATING AND CHARACTERISTIC CURVES MB10F







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