

Product profile

Single Phase Ultra Low VF Schottky Bridge Rectifier

General description

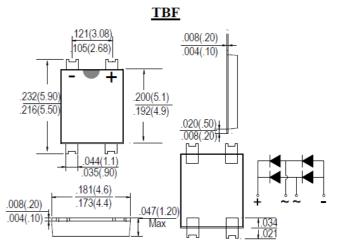
Schottky Rectifiers 1 Amp 100V

Features

- · Ideal for printed circuit board.
- High current capability
- Reliable low cost construction utilizing molded plastic technique.
- Low forward voltage drop
- · Low power loss, high efficiency
- · High surge current capability
- High temperature soldering guaranteed

260°C /10sec/0.375" lead length at 5 lbs tension

Small size, simple installation.



Dimensions in inches and (millimeters)

Mechanical data

Case: Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: MIL-STD- 202E, Method 208 guaranteed

Polarity: As marked

Parameter		Symbol	MTB1100	Unit
Maximum repetitive peak reverse voltage		VRRM	100	V
RMS Voltage (Max.)		VRMS	85	V
Working peak reverse voltage		VRWM	100	V
Maximum average forward rectified current	Total Device	IF(AV)	1	А
Peak forward surge current				
8.3ms single half sine-wave superimposed		IFSM	50	А
on rated load (JEDEC Method)				
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		TSTG	-55 to +150	°C

THERMAL CHARACTERISTICS						
Parameter	Symbol	Value	Unit			
Typical thermal resistance	RθJA	75	°C/W			

Notes:

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(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms



Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

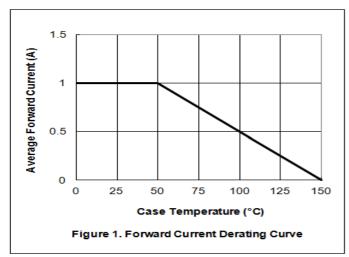
Parameter	Symbol	Value	Unit	
		Typical	Max	
Instantaneous forward voltage				
at IF=1A, Tj=25°C	VF	0.70	0.77	V
at IF=1A, Tj=125°C		0.55	0.61	
Maximum reverse current Tj=25°C	ID	10		u'A
at working peak reverse voltage Tj=125°C	· IR	1.0		m'A
Junction Capacitance @ DC 5V	CJ	100		pF

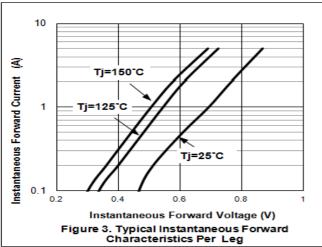
DEVICE MARK

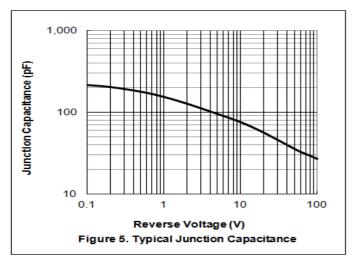
MTB1100

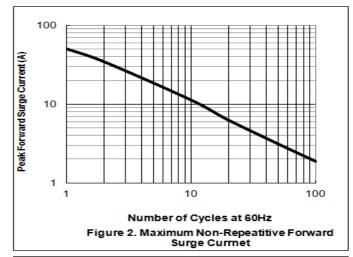


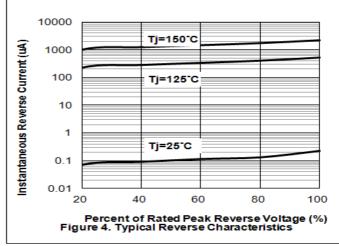
■ Characteristic Curves













Disclaimer

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