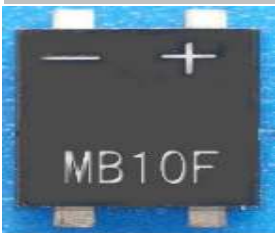


EDCON-COMPONENTS



Specifications

Features

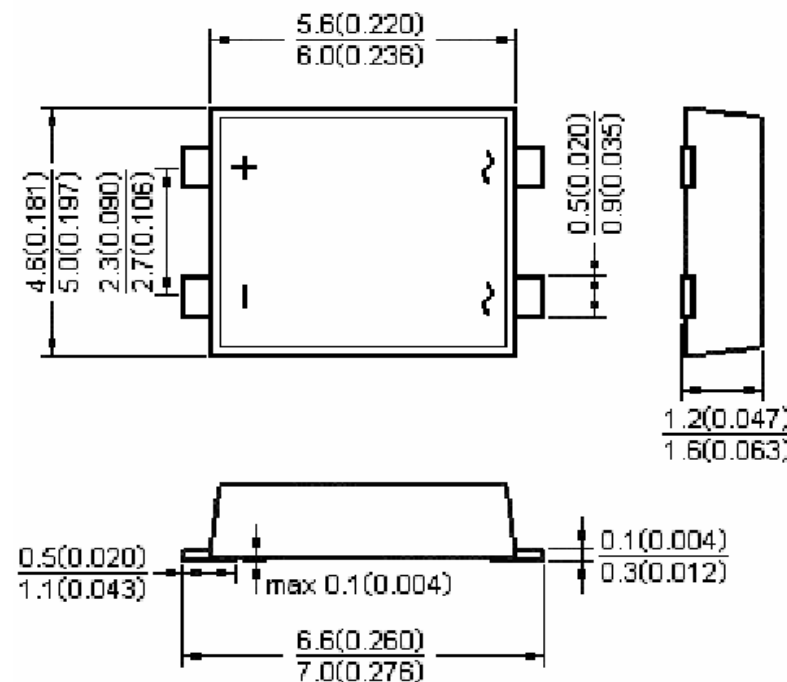
- Low profile space
- Ideal for automated placement
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature

	Symbols	MB 05F	MB 1F	MB 2F	MB 4F	MB 6F	MB 8F	MB 10F	Unit
Maximum reeurrent peak reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volt
Maximum rms Input voltage	VRMS	35	70	140	280	420	560	700	Volt
Maximum dc blocking Voltage	VDC	50	100	200	400	600	800	1000	Volt
Maximum average forward output rectified TA=100°C	I(AV)	0,5							Amps
Peak forward surge current 8,3ms single half sine-wave	IFSM	35							Amps
Maximum forward voltage drop	VF	1,0							Volt
Maximum revese voltage TA=25°C	IR	5							µA
Maximum revese voltage TA=125°C	IR	100							µA
Operating and storage temperature range	TJ TSTG	-55°C to + 150°C							°C
Type junction capacitance VR=4,0V f=1,0Mhz	CJ	13							pF

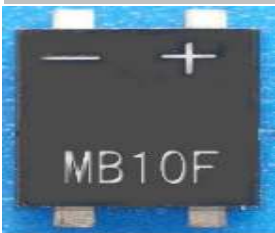
Technical Drawing (Unit: inch(mm))

MBF



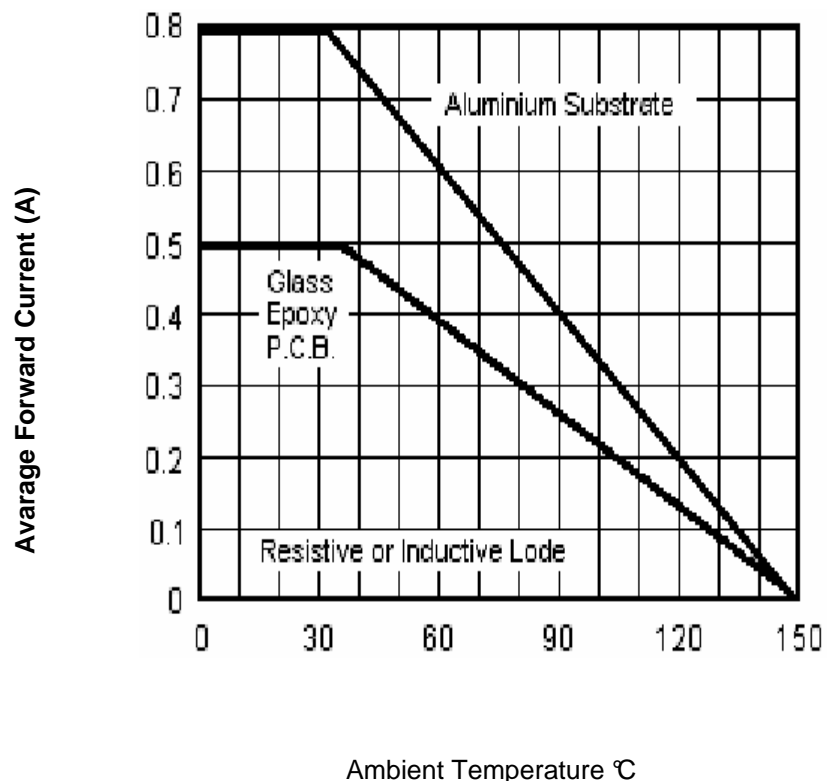
SMT Dual-Inline Bridge Rectifier 0,5A	
EDCON-Ser.	E12005
International Serie:	MBxxF

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 5

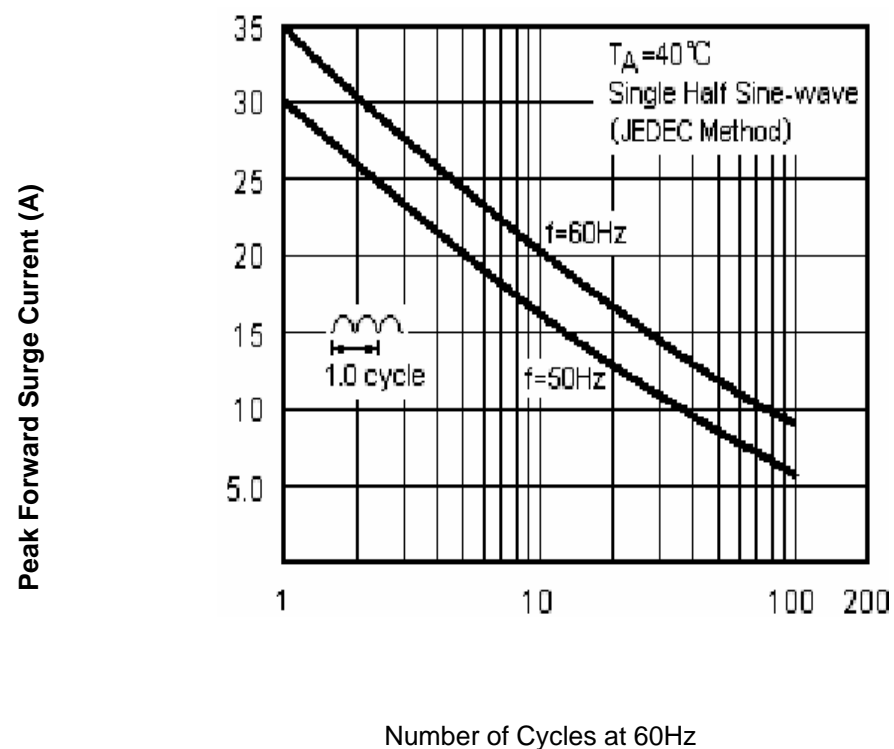


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Derating Curve for Output Rectified Current

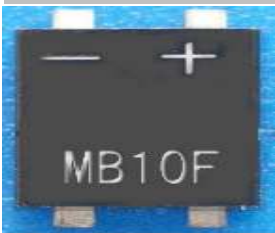


Maximum NON Repetitive Forward Surge Current



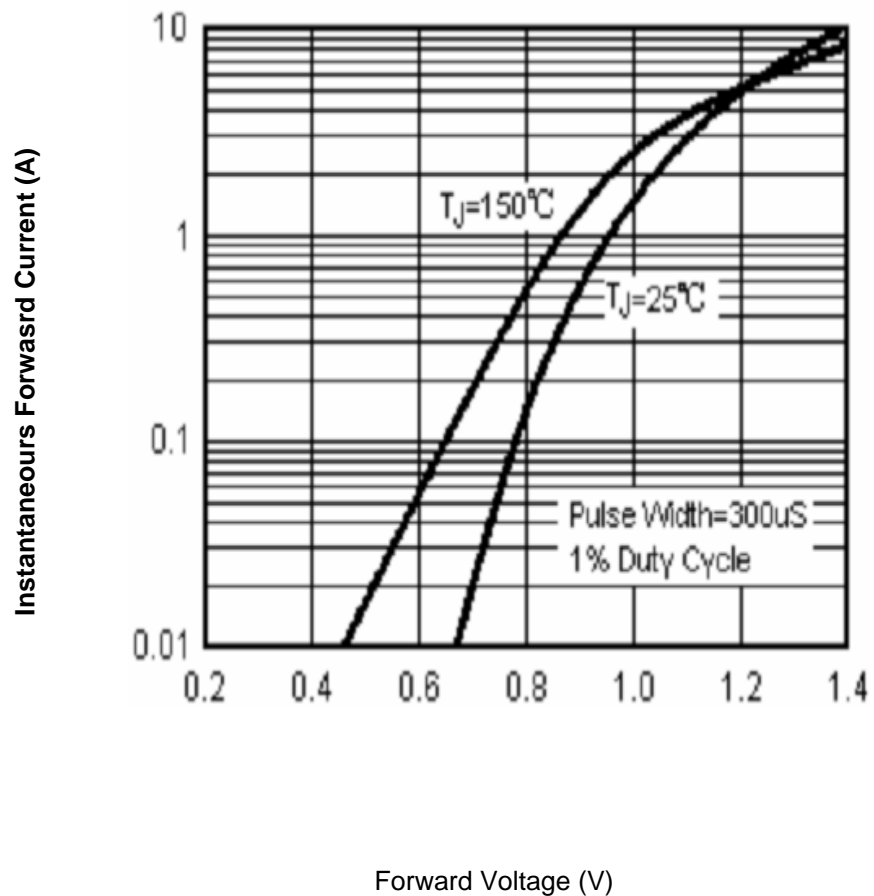
SMT Dual-Inline Bridge Rectifier 0,5A	
EDCON-Ser.	E12005
International Serie:	MBxxF

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		2 from 5

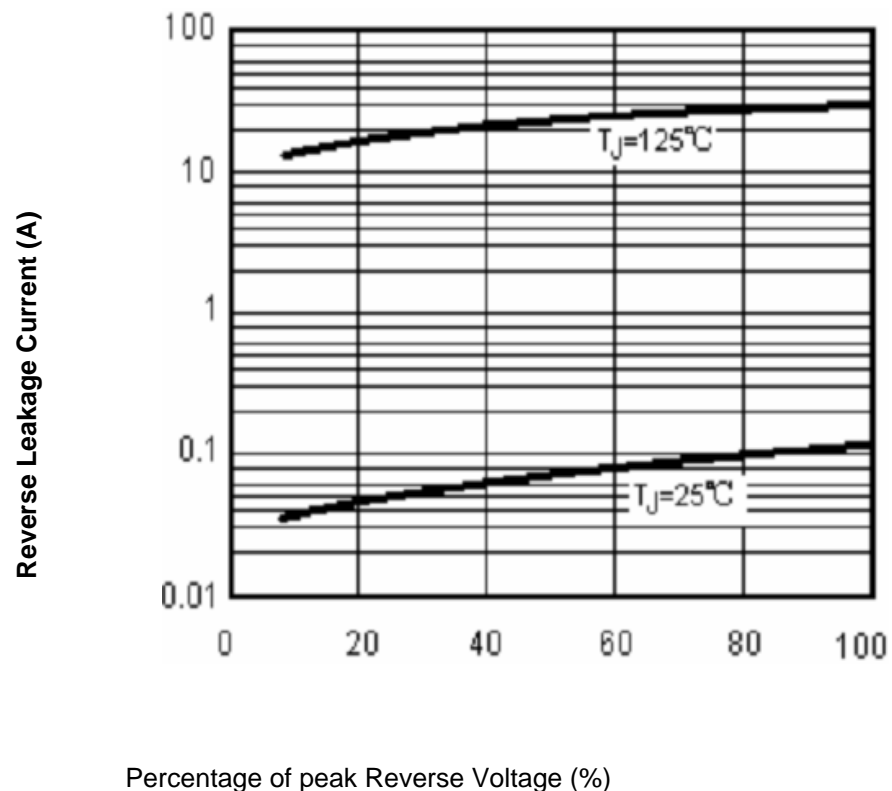


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Typical Forward Characteristics



Typical Reverse Characteristics



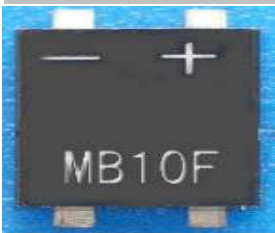
**SMT Dual-Inline Bridge Rectifier
0,5A**

EDCON-Ser. **E12005**

International Serie: **MBxxF**

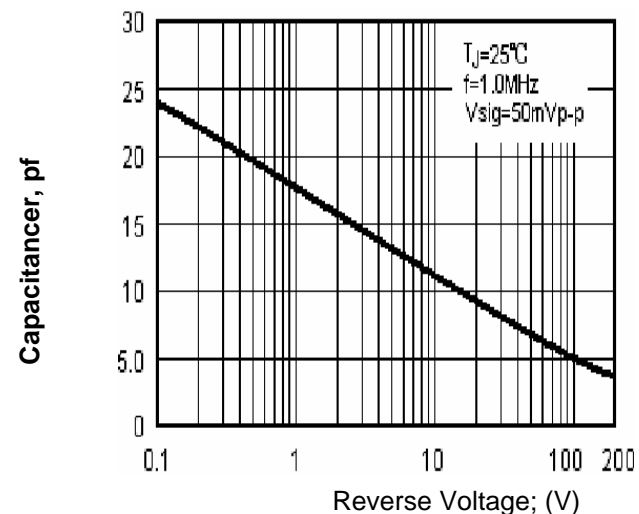
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.	3 from 5	

EDCON-COMPONENTS



Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Forward Current Derating Curve



Ordering Informations

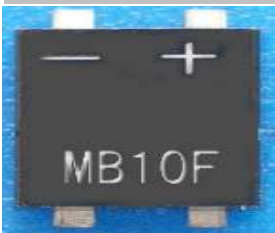
EDCON Serie	International Type	NO function	ROHS	Package					
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E12005	MBxxF	XX	R	TR					
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Look Voltage Code Table		R= ROHS Conform	TR= Tape Reel
		N= NON ROHS Conform	TU= Tube Packing

SMT Dual-Inline Bridge Rectifier 0,5A	
EDCON-Ser.	E12005
International Serie:	MBxxF

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		4 from 5



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



SMT Dual-Inline Bridge Rectifier 0,5A	
EDCON-Ser.	E12005
International Serie:	MBxxF

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.	5 from 5	