

Super fast recovery bridge rectifier Reverse Voltage-1000v Forward current-1A

Features

Glass passivated chip
High surge current capability
Ldeal for surface mounted applications
Low power loss, high efficiency
Plastic Case Material has UL Flammability



Package: MBF

Terminals:Tin Plated leads, solderable per

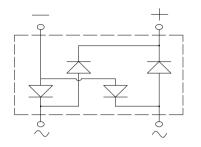
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise

Type Number	SYMBOL	UMB10F	Umit	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	V	
Maximum RMS Voltage	V_{RMS}	700	V	
Maximum DC Blocking Voltage	V_{DC}	1000	V	
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO _(AV)	1.0	1.0 A	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	25.0	A	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	II OW	50.0		
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	2.6	A ² S	
Maximum Forward Voltage at 1.0A DC	V_{FM}	1.7	V	
Maximum Reverse Current $TA = 25 ^{\circ}$	ID.	5	uA	
at Rated DC Blocking Voltage TA = 100 ℃	IR –	100		
Maximum reverse recovery time (IF=0.5A,IR=1.0A, Irr=0.25A)	Trr	75	ns	
Typical Junction Capacitance	CJ	17	pF	
Typical Thermal Resistance Between junction and	R _{QJa}	70.0	°C/W	
Operating Junction Temperature Range	T _J	—55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	55to+150	$^{\circ}$	

UMB10F

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

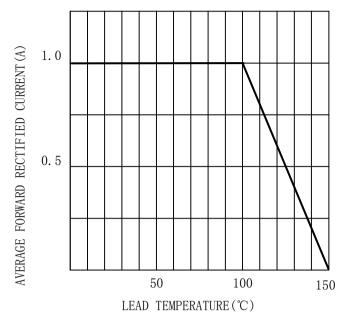


FIG. 2TYPICAL FORWARD CHARACTERISTICS

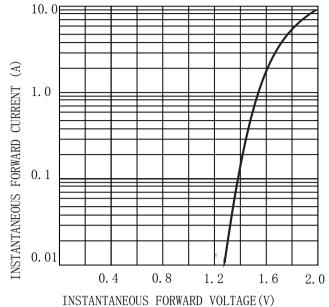


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

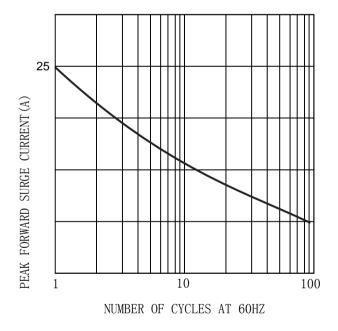
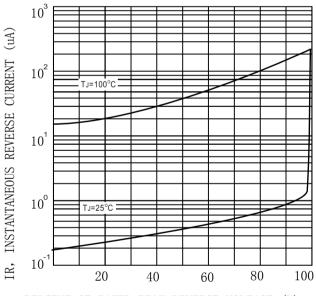


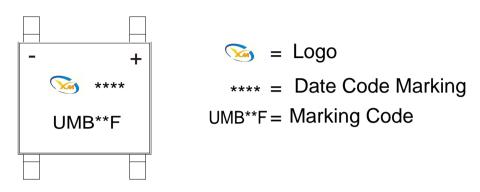
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



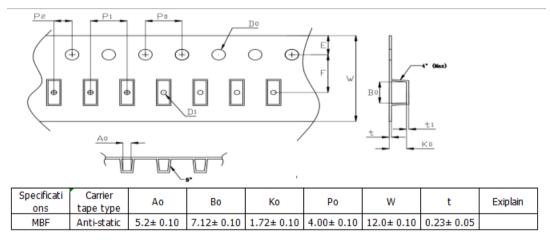
MARKING INFORMATION

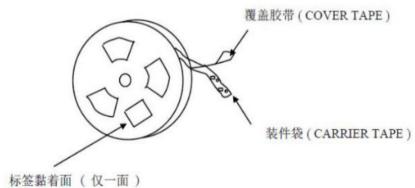


Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing

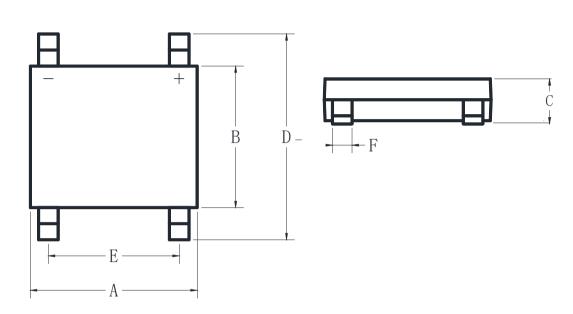




	DEVICE TYPE	Tape width	13"Reel		
			Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
	MBF	12mm	5000	20	100000

Outline Dimensions

MBF



MBF						
DTM	INC	HES	MM			
DIM	MIN	MAX	MIN	MAX		
A	0.18	0.20	4.5	5. 1		
В	0.14	0.16	3.6	4		
С	0.05	0.11	1.2	1.6		
D	0. 24	0.30	6	7. 5		
Е	0.08	0.12	2	3		
F	0.02	0.04	0.4	1		



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