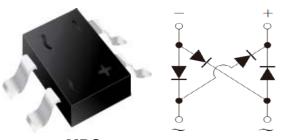




Surface Mount Glass Passivated Bridge Rectifier



MBS

Features

- · Glass Passivated Die Construction
- Low leakage
- · Ideal for printed circuit board
- Surge overload rating-25A peak
- · Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Primary Characteristics				
I _F	0.5	Α		
V_{RRM}	50~1000	V		
I _{FSM}	25	Α		
V _F	1	V		
T _J max	150	°C		

Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-STD-202,Method208
- Polarity: As Marked on Case
- · Mounting Position:Any
- · Marking:Type Number

Ordering Information						
Part No.	Remark	Package	Packing			
MB05SN THRU MB10SN	General	MBS	3000 / Tape & Reel			
MB05SN THRU MB10SN-H	Halogen Free	IVIDO	3000 / Tape & Neel			

Maximum Ratings (TA=25°C unless otherwise noted)										
Parameter		Symbol	MB 05SN	MB 1SN	MB 2SN	MB 4SN	MB 6SN	MB 8SN	MB 10SN	Units
Peak Repetitive Reverse Voltage		V_{RRM}								
Working Peak Reverse Voltage		V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage		V_{DC}								
RMS Reverse Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current	@Tc=100°C	I F(AV)	0.5					Α		
Non-Repetitive Peak Forward Surge Single half sine-wave superimposed (JEDEC Method)		I _{FSM}	25					А		
I ² tRating for fusing (t<8.3ms)		l ² t				2.594				A ^{3s}
Forward Voltage per element	@I _F =0.5A	V_{FM}	1.0					V		
Peak Reverse Current At Rated DC Blocking Voltage	@ TA=25°C @ TA=125°C	I _R	5.0 200					uA		
Typical Junction Capacitance per leg		Сл	13				pF			
Typical Thermal Resistance per leg		$R_{\theta JA}$	60						°C/W	
		$R_{ heta JL}$	16							
Operating and Storage Temperature	Range	$T_{J,}T_{STG}$	_G -55~+150				°C			
Marking Code			MB 05SN	MB 1SN	MB 2SN	MB 4SN	MB 6SN	MB 8SN	MB 10SN	

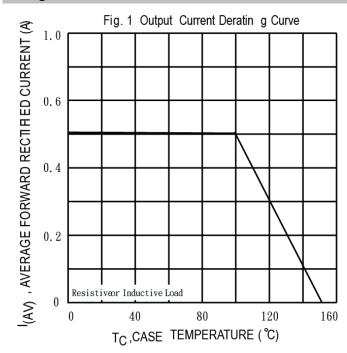
Note:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

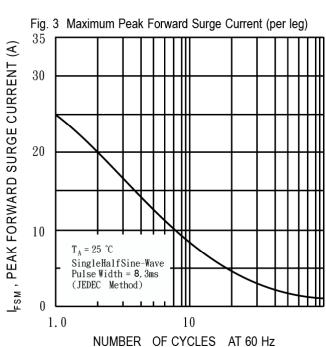


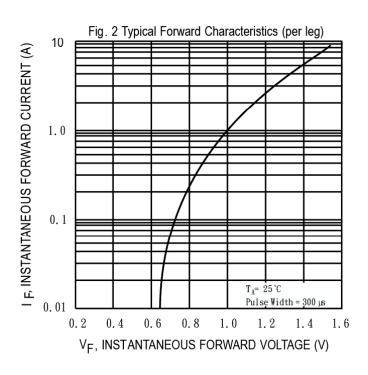


Surface Mount Glass Passivated Bridge Rectifier

Rating and Characteristics Curvers







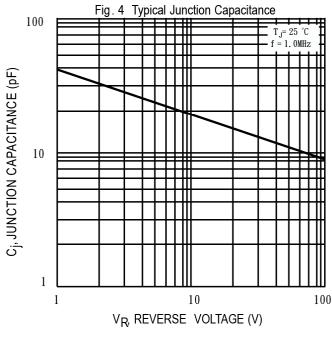


FIG.6 MOUNTING PAD LAYOUT

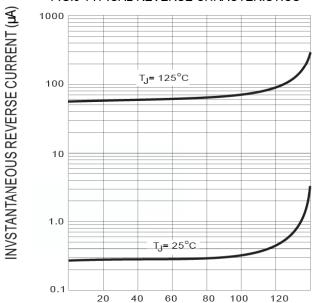




Surface Mount Glass Passivated Bridge Rectifier

Rating and Characteristics Curvers





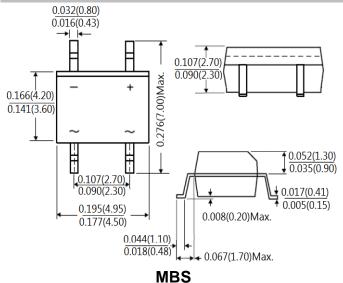
PERCENT OF RATED PEAK INVERSE VOLTGE(V)





Surface Mount Glass Passivated Bridge Rectifier

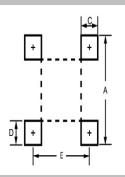
Package Outline Dimensions



Dimensions in inches and (millimeters)

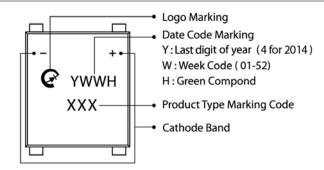
Suggested Pad Layout

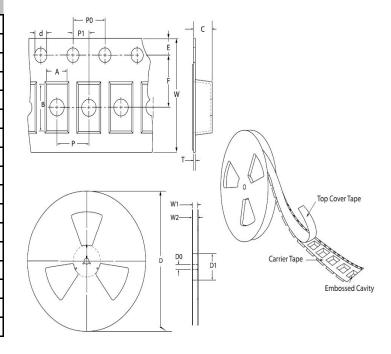
Outline Dimension	MBS (mm)
А	6.91
С	0.90
D	1.50
E	2.67



Tap & Reel Specification				
ITEM	SYMBOL	MBS(mm)		
Carrier width	Α	4.90±0.01		
Carrier length	В	7.24±0.1		
Carrier depth	С			
Sprocket hole	d	1.55±0.05		
Reel outside diameter	D	330±2.0		
Feed hole diameter	D0	13.0±0.2		
Reel inner diameter	D1	50(min)		
Sprocket hole position	Е	1.75±0.1		
Punch hole position	F	5.5±0.05		
Sprocket hole pitch	Р			
Sprocket hole pitch	Po	_		
Embossment center	P1	2.0±0.05		
Overall tape thickness	T	0.30		
Tape width	W	12.0±0.3		
Reel width	W2	14.4(max)		
Reel width	W1	_		

Marking Information









Surface Mount Glass Passivated Bridge Rectifier

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