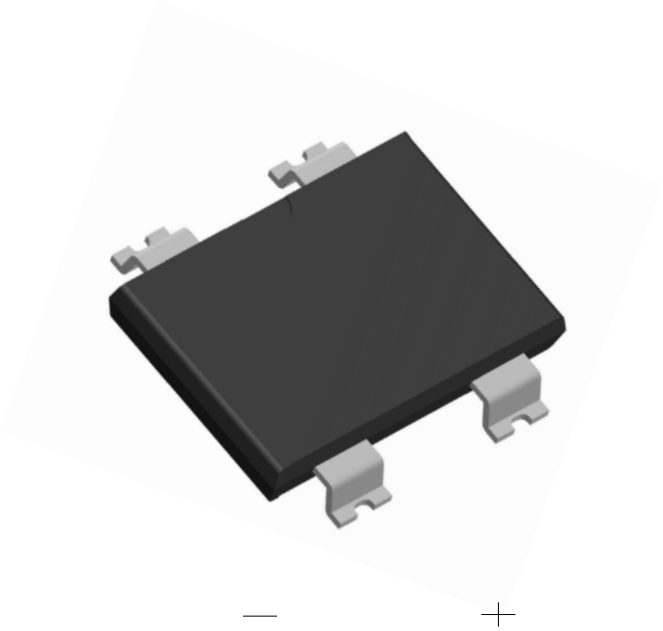
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

HBS810

Bridge Rectifiers
Reverse Voltage-1000v
Forward current-8A

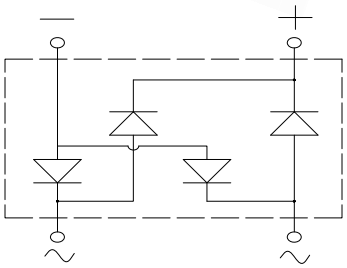


Features

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

Mechanical Data

Package:HBS
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 specified)

Type Number	SYMBOL	HBS810	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	$IO_{(AV)}$	8.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	180.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		360.0	A
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	I^2t	134.5	A^2S
Maximum Forward Voltage at 8.0A DC	V_{FM}	1.1	V
Maximum Reverse Current TA = 25℃	IR	5	uA
at Rated DC Blocking Voltage TA = 125℃		100	
Typical Thermal Resistance	R_{QJa}	75.0	℃/W
Operating Junction Temperature Range	T_J	—55to+150	℃
Storage Temperature Range	T_{STG}	—55to+150	℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

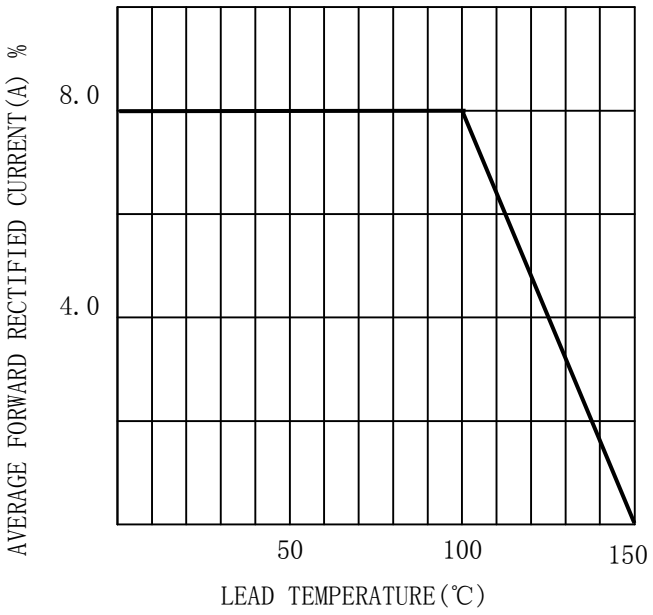


FIG.2TYPICAL FORWARD CHARACTERISTICS

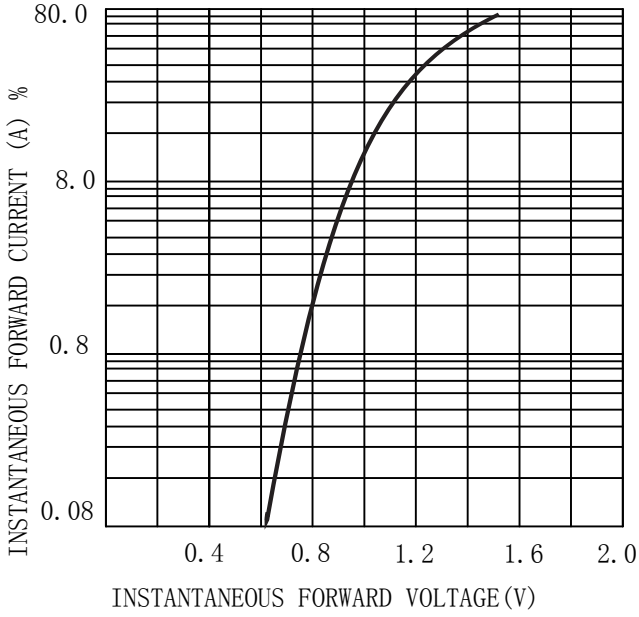


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

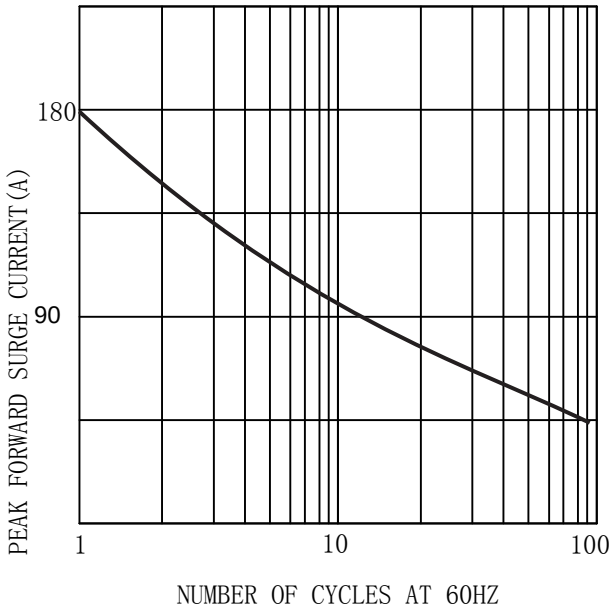
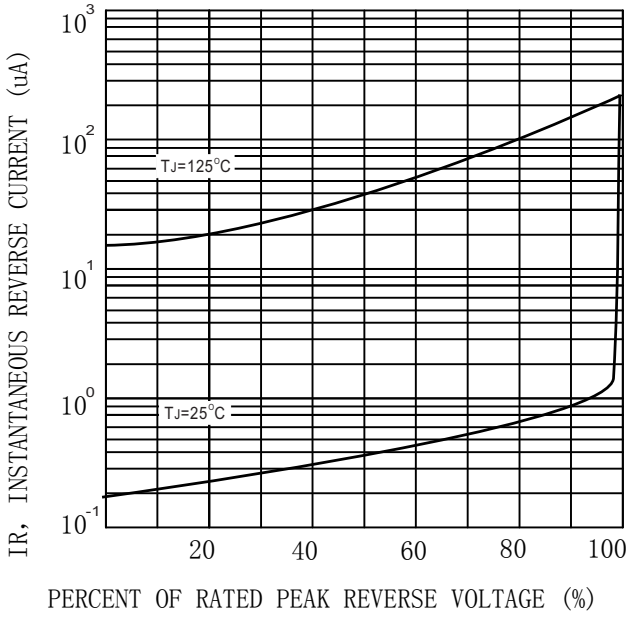
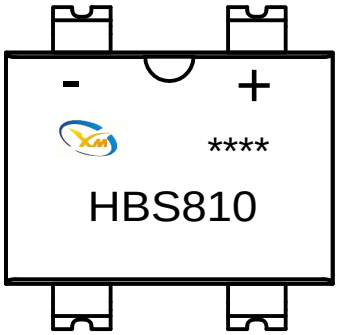


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION



= Logo

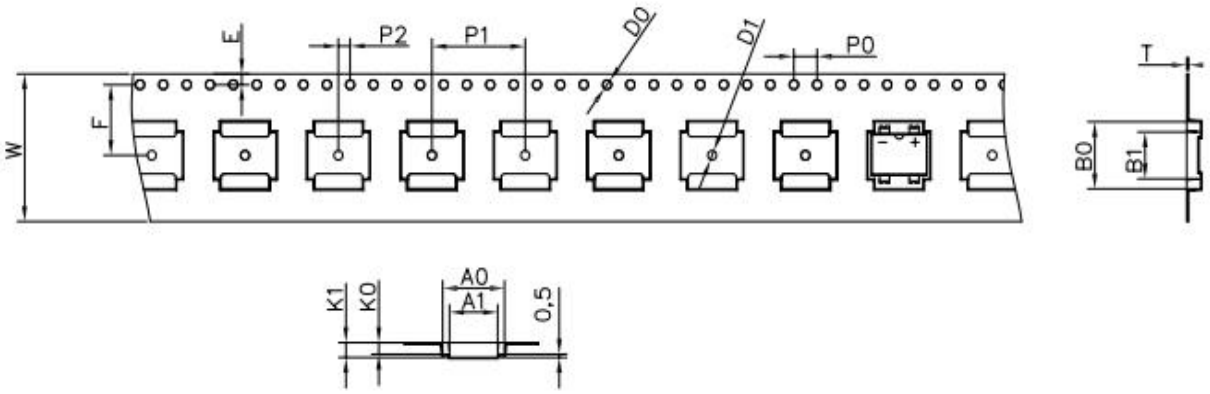
**** = Date Code Marking

HBS810 = Marking Code

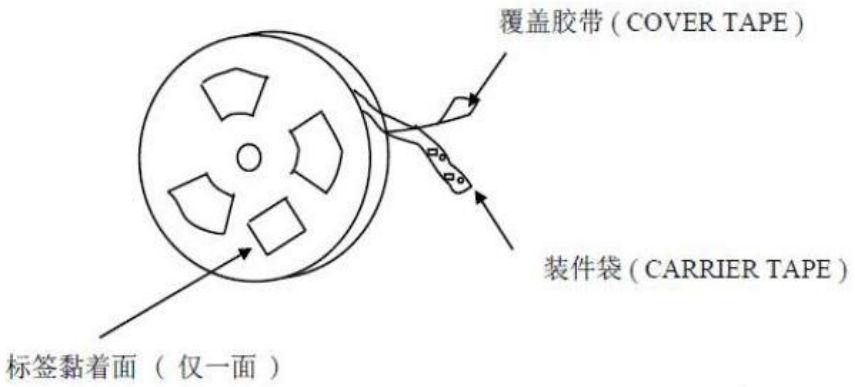
Print according to customer request

PACKING REQUIRMENTS

- Carrier tape packing

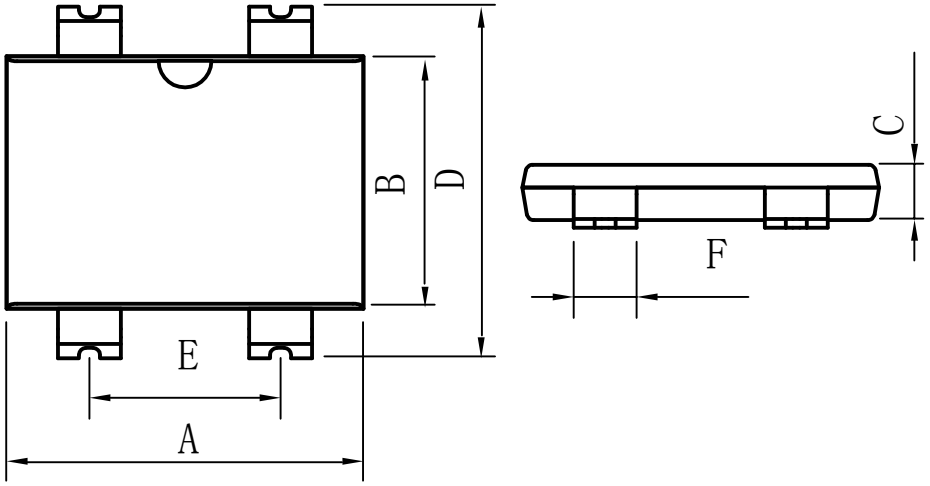


Specifications	Carrier tape type	Ao	A1	BO	B1	KO	K1	Po	W	t	Exiplain
HBS	DIM	10.6	8.3	10.9	7.6	1.9	2.4	4.0	16.0	0.3	
	TOLE	±0.2	±0.2	±0.2	±0.2	±0.1	±0.1	±0.1	±0.2	±0.05	



DEVICE TYPE	Units/Reel	Tubes/ Inner Box	Units/ Inner Box	Inner Box/ Carton Box	Units/ Carton Box
HBS	1500	1	1500	10	15000

Outline Dimensions



HBS				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.39	0.41	10.0	10.4
B	0.28	0.29	7.0	7.4
C	0.06	0.07	1.4	1.7
D	0.38	0.40	9.7	10.2
E	0.21	0.22	5.3	5.7
F	0.07	0.08	1.7	2.0

Important Statements and disclaimers.

Do not copy or modify file information without permission.

Xumao Micro reserves the right to modify this document and its products.

Specifications are available without prior notice. Customer shall 。 obtain and confirm the latest product information and specifications prior to final design, purchase or use.

Xumao Micro does not assume any implied warranties, including warranties of fitness for special purposes, non-infringement and merchantability.

The products shown here are not designed and licensed for demanding equipment at a level of reliability or for human life and any life-saving related applications or life-sustaining, such as medical devices, transportation equipment, aerospace machinery, and so on. Customers who use or sell these products for such applications do so at their own risk.

As Xumao Micro uses batch number as tracking benchmark, please provide batch number for tracking in case of exception.