



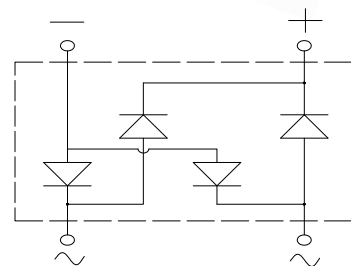
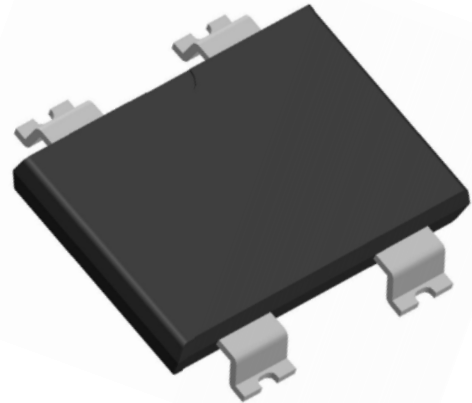
Fast Recovery Bridge Rectifiers
Reverse Voltage-1000v
Forward current-8A

Features

Glass passivated chip
High surge current capability
Ideal 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°C Unless otherwise specified)

Type Number	SYMBOL	RHBS810	Unit
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	$I_{O(AV)}$	8.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	160.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		320.0	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	106.2	A ² S
Maximum Forward Voltage at 8.0A DC	V_{FM}	1.3	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 125°C		100	
Maximum reverse recovery time (IF=0.5A,IR=1.0A, Irr=0.25A)	Trr	500	ns
Typical Thermal Resistance	R_{QJa}	75.0	°C/W
Operating Junction Temperature Range	Tj	—55to+150	°C
Storage Temperature Range	TSTG	—55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

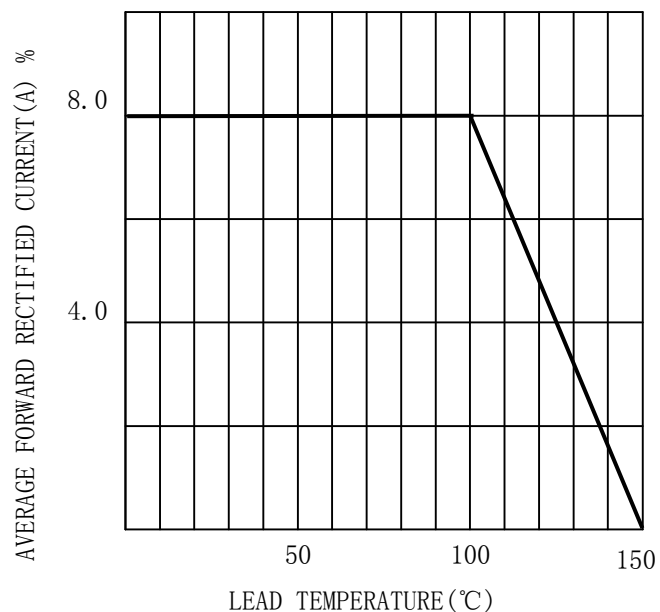


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

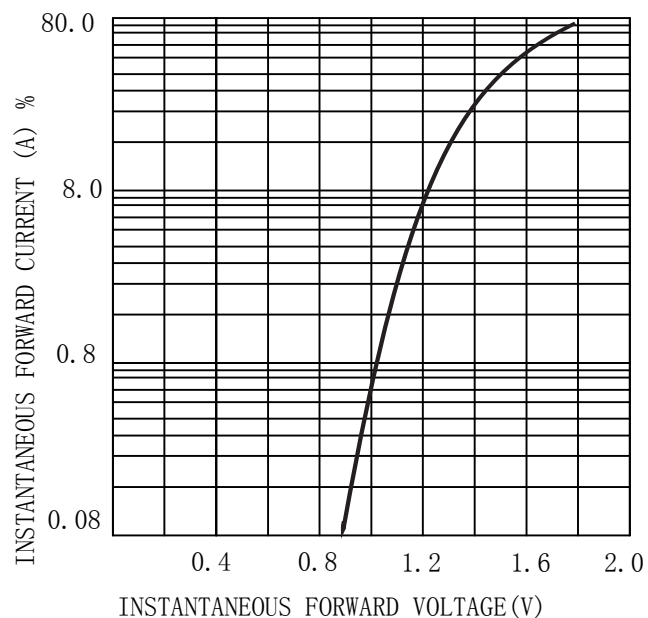


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

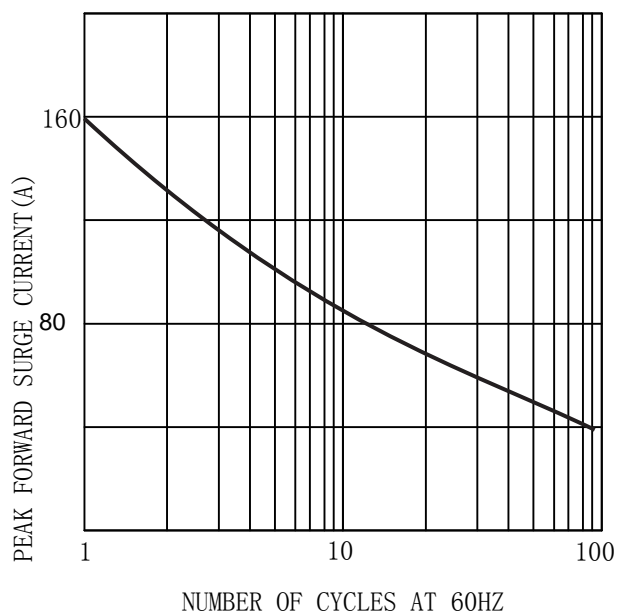
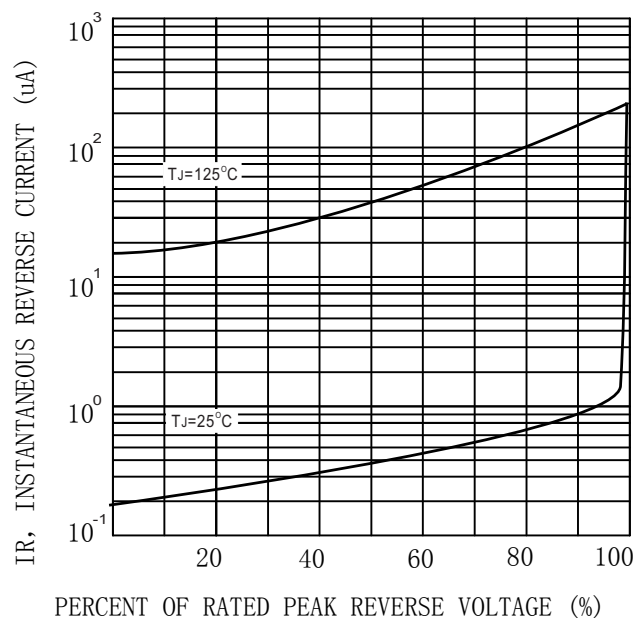
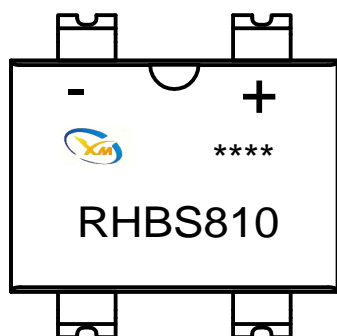


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo

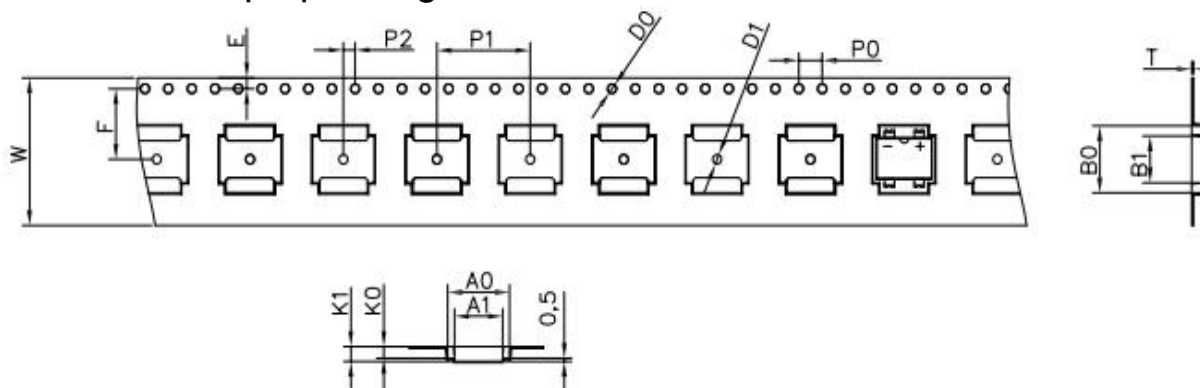
= Date Code Marking

RHBS810= Marking Code

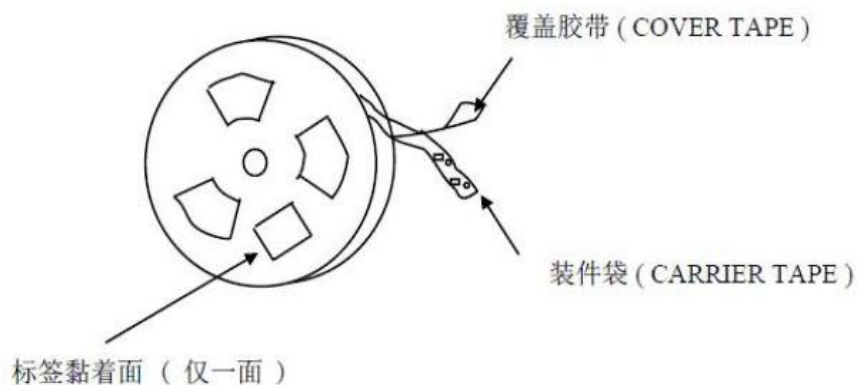
Print according to customer request

PACKING REQUIRMENTS

• Carrier tape packing



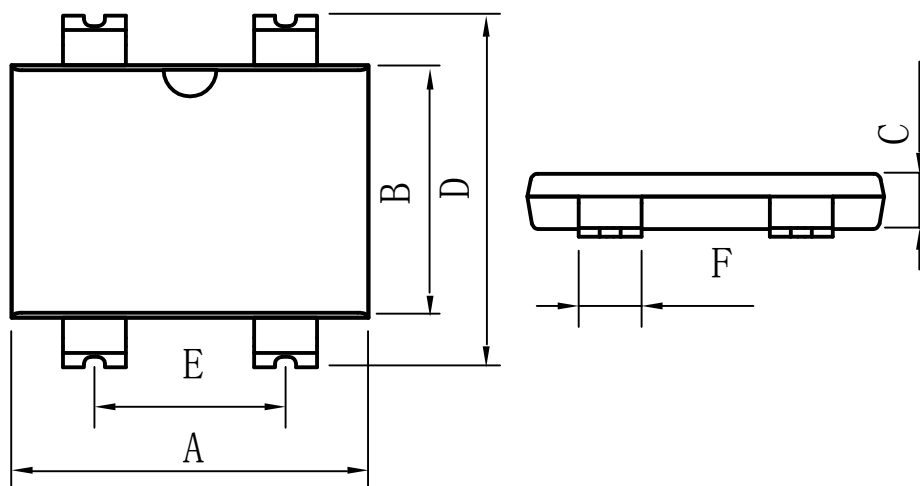
Specificati ons	Carrier tape type	Ao	A1	BO	B1	KO	K1	Po	W	t	Explain
HBS	DIM	10.6	8.3	10.9	7.6	1.9	2.4	4.0	16.0	0.3	
	TOLE	±0.2	±0.2	±0.2	±0.2	±0.1	±0.1	±0.1	±0.2	±0.05	



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



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