RHBS810

Fast Recovery 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

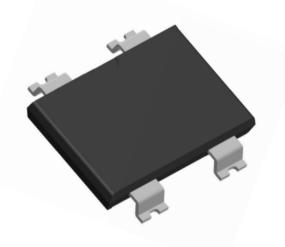
Terminals:Tin Plated leads, solderable per

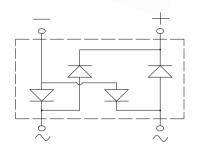
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25 ℃ Unless otherwise specified)

Type Number	SYMBOL	RHBS810	Umit	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	V	
Maximum RMS Voltage	V_{RMS}	700	V	
Maximum DC Blocking Voltage	V _{DC}	DC 1000		
Maximum Average Forward Rectified Current	IO _(AV) 8.0		А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM —	180.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	II SIVI	360.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	134.5	A ² S	
Maximum Forward Voltage at 8.0A DC	V _{FM}	1.3	V	
Maximum Reverse Current TA = 25°C	ID.	5	uA	
at Rated DC Blocking Voltage TA = 125℃	IR	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	T _J	55to+150	$^{\circ}$ C	
Storage Temperature Range	T _{STG}	55to+150	$^{\circ}\!\mathbb{C}$	

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FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

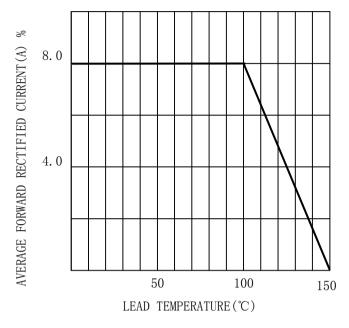


FIG. 2TYPICAL FORWARD CHARACTERISTICS

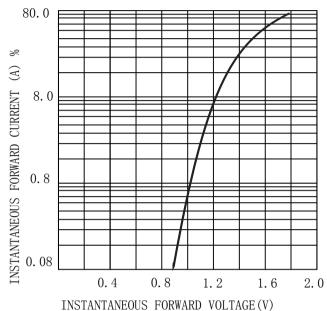


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

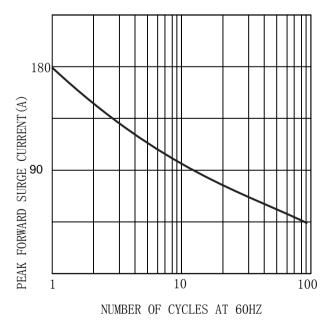
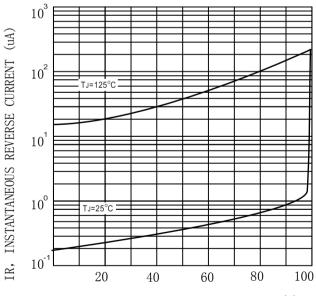


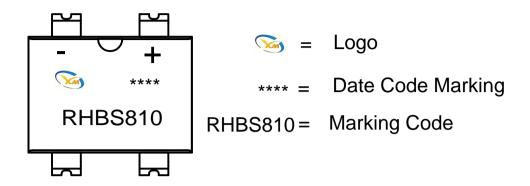
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



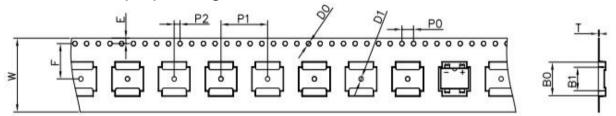
MARKING INFORMATION

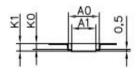


Print according to customer request

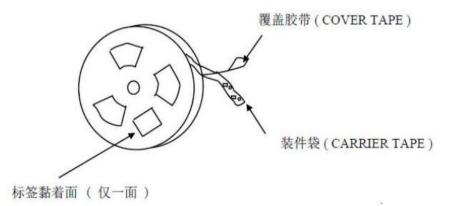
PACKING REQUIRMENTS

Carrier tape packing





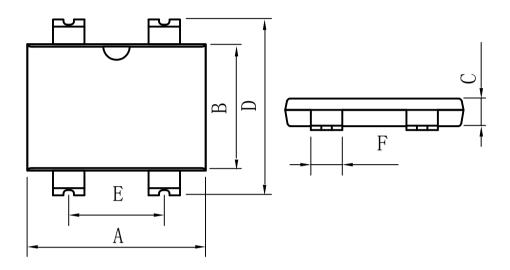
Specificati ons	Carrier tape type	Ao	A1	ВО	B1	КО	K1	Ро	W	t	Exiplain
HBS	DIM	10.6	8.3	10.9	7.6	1.9	2.4	4.0	16.0	0.3	
	TOLE	±0.2	±0.2	±0.2	±0.2	±0.1	±0.1	±0.1	±0.2	±0.05	



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			
DIM	MIN	MAX	MIN	MAX		
A	0.39	0. 41	10.0	10. 4		
В	0. 28	0. 29	7. 0	7.4		
С	0.06	0. 07	1. 4	1. 7		
D	0.38	0.40	9. 7	10. 2		
Е	0. 21	0. 22	5. 3	5. 7		
F	0.07	0.08	1.7	2.0		

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