

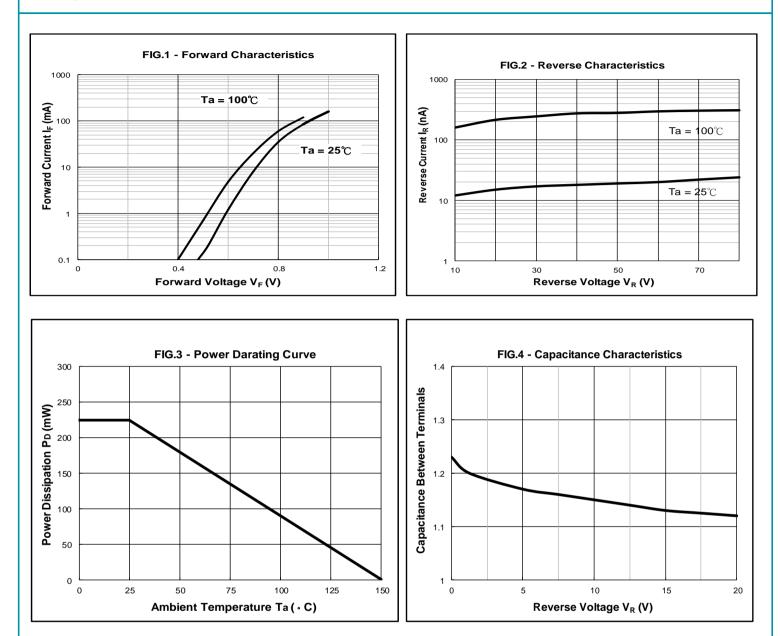
BAW56/BAV70/BAV99

SMD Switching Diode			Reverse Voltage - 70 V Forward Current - 0.2 A					
Features		Package Outline						
 Power Dissipation of 225mW 								
 Fast Switching Device (TRR<6nS) 		SOT23 Top View						
 High Stability and High Reliability 		SC123 TOP VIEw						
● Low Reverse Leakage								
Mechanical Data		Device	Sche	ematic & Pl	N Conf	igurat	ion	
Case: SOT23 Package		_	3		3		3	
 Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0 								
Mounting Position : Any					2	י ר ע	1 2	
Note: Products with logo			BAW5	6 B	AV70		BAV99	
are made by HY Electronic (Cayman) Limited.								
	Ordering Information Product Type Marking Code							
Package :SOT23								
Reel Size :7 (inches)			A1		A4		A7	
Quantity Per Reel :3,000 pcs								-
Quantity One Box :45,000 pcs								
Quantity One Carton :180,000 pcs BAW56 BAV70 BAV99								
Maximum Ratings (@TA = +25°C, unless otherwise specified.)								
Absolute Ratings								
Parameter		Symbol			Value			Unit
Reverse Voltage		VR	70					V
Average Rectified Output Current		lo	200					mA
Forward Continuous Current		IFM 400 п					mA	
Non-repetitive Peak Forward Surge Current @ t = 1us;TA=25 $^\circ\!\!\mathbb{C}$		IFSM	2					А
Power Dissipation		Pd	225			mW		
unction temperature		Tj	150 ° C				° C	
Storage Temperature Range		Тѕтс		-65 to +150 ° C				
Thermal Resistance from Junction to Ambient		R <i>θ</i> ja		500 ° C/W				
Electrical Characteristics								
Parameter	Tes	Test Conditions		Symbol	Min	Тур	Max	Unit
Reverse Voltage		Iв= 100uA		Vbr	100	-	-	V
Reverse Leakage Current	,	Vr= 100V		lr	-	-	2.5	uA
Forward Voltage		IF = 1mA 0.715			0.715			
		IF = 10mA		VF	-	-	0.855	V
		I⊧ = 50mA			-	-	1.00	
		IF = 150mA			-	-	1.25	
Reverse Recovery Time		IF=IR=10mA,Irr=0.1*IR, RL=100Ω		Trr	-	-	6	ns
Junction Capacitance	Vr =	V _R = 0V, F = 1MHZ		С⊤	-	-	1.5	pF
· · · · ·		-					-	



BAW56/BAV70/BAV99

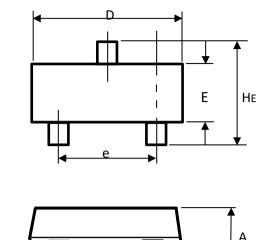
Rating and Characteristic Curves

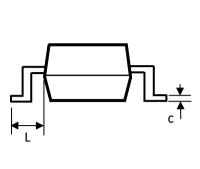




BAW56/BAV70/BAV99

Package Outline Dimensions



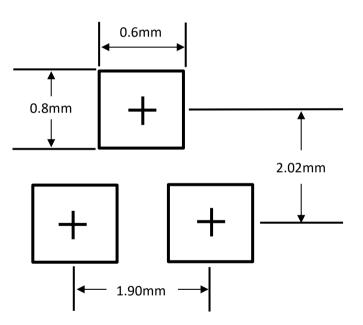


SOT23 Package					
Dim	Min	Max			
А	0.90	1.15			
A1	0.00	0.10			
b	0.30	0.50			
с	0.08	0.15			
D	2.80	3.00			
E	1.20	1.40			
е	1.80	2.00			
L	0.55 REF				
He	2.25	2.55			
All Dimensions in mm					

Suggested Soldering Pad Layout

A1

b



Note:

1. The pad layout is for reference purposes only.

2.General tolerance ±0.05mm

Disclaimer

All specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

HY makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the cotinuing production of any product. To the maximum extent permitted by applicable law, HY disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on HY's knowledge of typical requirements that are often placed on HY products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify HY's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, HY products are not designed for use in medical, life-saving, or life-sustaining applications or for any other applications in which the failure of the HY product could result in personal injury or death. Customers using or selling HY products not expressly indicated for use in such applications do so at their own risk.Please contact authorized HY personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of HY. Product names and markings noted herein may be trademarks of their respective owners.