

AR50A thru AR50M

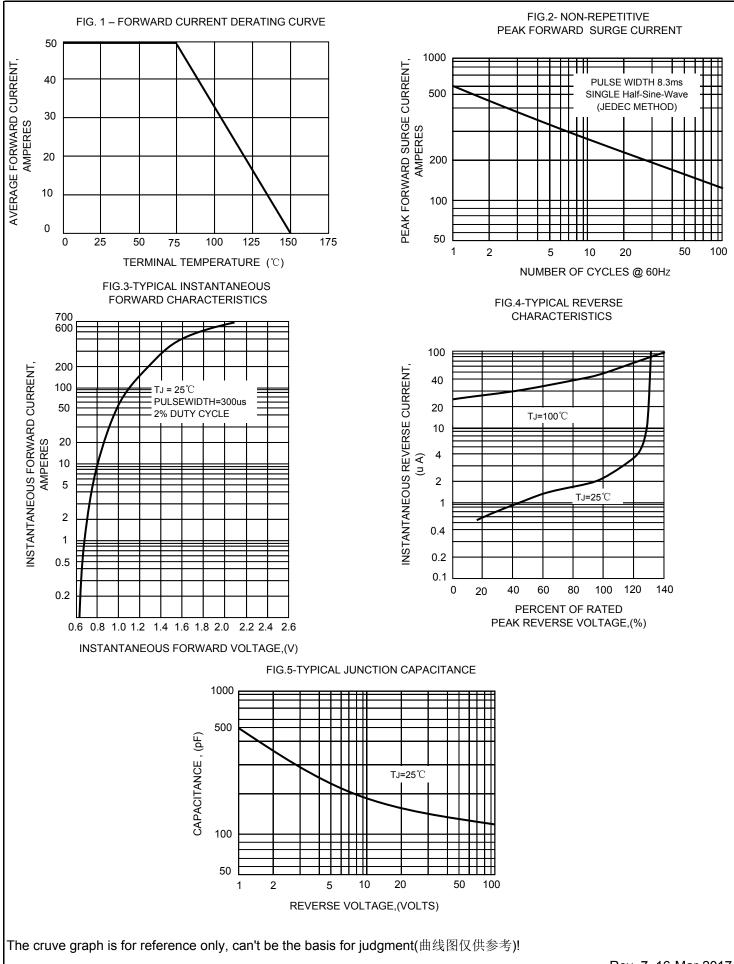
HIGH CURRENT		REVERSE VOLTAGE - 50 to 1000Volts							
AUTOMOBILE RECTIFIER		FORWARD CURRENT - 50 Amperes							
 FEATURES ●Utilizing viod-free molded plastic technique ●Low power loss ●High Surge Capability ●High temperature soldering guaranteed: 265°C/10S 							(5.7) (5.5) 0(10.4) 0(9.7)		
 MECHANICAL DATA Terminals:Plated axial terminals solderable per MIL STD-202E,Method 208C Case: Molded with UL-94 Class V-O recognized 			.250(.235(↓ <u>185(4.7</u> 165(4.2		
flame retardant epoxy Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR		RACT	ERISTI		nsions in	inches a	nd (millim	eters)	
●Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20%	wise specified. tive load.			CS		Γ	ſ	ſ	
 Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS 	wise specified. tive load.	AR50A	AR50B	CS AR50D	AR50G	AR50J	AR50K	AR50M	UNIT
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage	wise specified. tive load. SYMBOL VRRM	AR50A 50	AR50B 100	AR50D 200	AR50G 400	AR50J 600	AR50K 800	AR50M 1000	V
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage	wise specified. tive load. SYMBOL VRRM VRMS	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=55 °C	wise specified. tive load. SYMBOL VRRM	AR50A 50	AR50B 100	AR50D 200	AR50G 400	AR50J 600	AR50K 800	AR50M 1000	V
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current 8.3ms Single Half Sine-Wave	wise specified. tive load. SYMBOL VRRM VRMS VDC	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280 400	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V V
 Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=55 °C Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load Maximum Instantaneous Forward Voltage (at Rated Forward Current) 	wise specified. tive load. SYMBOL VRRM VRMS VDC I(AV)	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280 400 50 600 1.1	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V V A
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load Maximum Instantaneous Forward Voltage (at Rated Forward Current) Maximum DC Reverse Current @TA=25°C	wise specified. tive load. VRRM VRMS VDC I(AV)	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280 400 50 600 1.1 10 1000	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V V A A
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=55 °C Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load Maximum Instantaneous Forward Voltage (at Rated Forward Current) Maximum DC Reverse Current @TA=25°C at Rated DC Bolcking Voltage @TA=150°C	wise specified. tive load. SYMBOL VRRM VRMS VDC I(AV) IFSM VF	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280 400 50 600 1.1 10	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V V A A V
 Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=55 °C Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load Maximum Instantaneous Forward Voltage (at Rated Forward Current) Maximum DC Reverse Current @TA=25°C at Rated DC Bolcking Voltage @TA=150°C Typical Junction Capacitance Element (Note1) 	wise specified. tive load. VRRM VRMS VDC I(AV) IFSM VF IR	AR50A 50 35	AR50B 100 70	AR50D 200 140	AR50G 400 280 400 50 600 1.1 10 1000	AR50J 600 420	AR50K 800 560	AR50M 1000 700	V V A A V uA pF
 Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TA=55 °C Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load Maximum DC Reverse Current @TA=25°C at Rated DC Bolcking Voltage @TA=150°C Typical Junction Capacitance Element (Note1) Typical Thermal Resistance (Note2) 	wise specified. tive load. VRRM VRMS VDC I(AV) IFSM VF IR CJ	AR50A 50 35	AR50B 100 70	AR50D 200 140 200	AR50G 400 280 400 50 600 1.1 10 1000 300	AR50J 600 420 600	AR50K 800 560	AR50M 1000 700	V V A A V uA pF
Polarity: Color ring denotes cathode MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless other Single phase, half wave ,60Hz, resistive or induct For capacitive load, derate current by 20% CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward	wise specified. tive load. SYMBOL VRRM VRMS VDC I(AV) IFSM VF IR CJ R0JA	AR50A 50 35	AR50B 100 70	AR50D 200 140 200	AR50G 400 280 400 50 600 1.1 10 1000 300 1.0	AR50J 600 420 600	AR50K 800 560	AR50M 1000 700	V V A A V uA pF °C/W

3.The typical data above is for reference only(典型值仅供参考).

Rev. 7, 16-Mar-2017

RATING AND CHARACTERISTIC CURVES AR50A thru AR50M





Rev. 7, 16-Mar-2017



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.

声明

所有的规格及数据如因改进可靠性、功能、设计或其他原因发生变更,恕不另行通知。

HY 对产品特定用途的适用性或任何产品的连续生产不做担保、陈述或保证。在可适用法律允许的最大程度上, HY 不承担 (i) 因应 用或使用任何产品产生的任何及全部责任, (ii) 包括但不限于特定、连带或附带损害产生的任何及全部责任, (iii) 不做任何形式默认担保, 包括不保证特定用途的使用性、非侵权及商业适销性。

关于产品适用于某类应用的声明以 HY 掌握的 HY 产品一般应用环境下的典型要求为准。此类声明与产品特定应用的适用性声明不存在 任何关联。客户自行负责根据产品技术规格的说明认证特定产品是否适用于特定的应用。数据手册和技术规格中提供的参数可能因不同 的应用而异,而且性能可能随时间而变化。所有工作参数,包括电型参数,必须有客户的技术专家根据每一个客户应用环境确认。产品 技术规格不扩展或不以其他方式修改 HY 的采购条款与条件或不以其他方式修改 HY 的采购条款与条件,包括但不限于规定的质保条件。

除非书面注明,否则HY产品不用于医疗、救护或生命维护,或其他因 HY 产品发生故障有可能导致人身伤亡的应用场合。客户使用或 销售未明确指示可在上诉应用中使用的 HY 产品风险自负。如欲获得有关指定用于上诉应用的产品的书面条款及条件,请与HY授权人员 联系。

本文档或任何 HY 的行为不以禁止反言或其他方式授予任何知识产权的许可,无论显示还是暗示。本文提到的产品名称和标识可能为 各自所有者的商标。