



Transient Voltage Suppressor for Automobile Button

Breakdown Voltage - 24 to 40Volts

Forward Current - 35 Amperes

Features

- High surge current capability
- Low loss
- Low forward voltage drop
- Low leakage current
- High surge forward current capability
- High temperature soldering guaranteed: 250 °C/10S

Mechanical Data

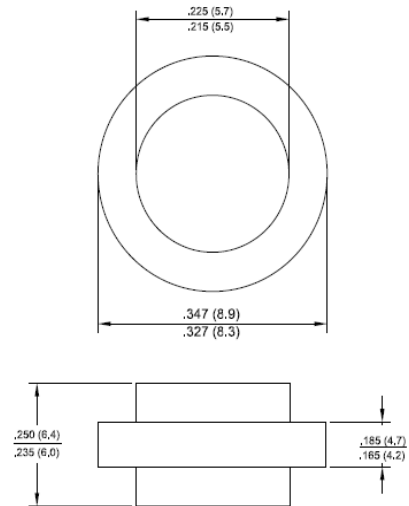
- Case: JEDEC ARS molded plastic
- Polarity: Color band denotes cathode

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

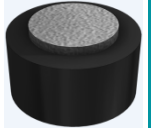
Applications

- Generally applied in alternator, motorbike , automobile, etc.

ARS



RoHS
COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	ARS3524		ARS3528		ARS3540		Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	16		20		28		V
Working Peak Reverse Voltage	VRWM	16		20		28		V
Maximum DC Blocking Voltage	VDC	16		20		28		V
Breakdown voltage Min@ IBR=100mA/TA=25℃	VBRL	20		24		38		V
Breakdown voltage Max@ IBR=100mA/TA=25℃	VBRH	26		32		42		V
Maximum Average Forward Rectified Current @TL=125℃	I(AV)	35						A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	400						A
I²t Rating for Fusing (t<8.3mS)	I²t	664						A² S
Maximum Instantaneous Forward Voltage at Rated Forward Current	VF	1.0						V
Maximum DC Reverse Current at Rated DC Bolcking Voltage @TJ=25℃	IR	0.2						uA
Operating Junction Temperature Range	TJ	-55 to +150						℃
Storage Temperature Range	TSTG	-55 to +150						℃
Position of polarity ring denotes cathode, while color denotes voltage gradation.		Red	Yellow	Orange	Silver	Green	Blue	

Note: The typical data above is for reference only



Fig. 1 - Forward Current Derating Curve

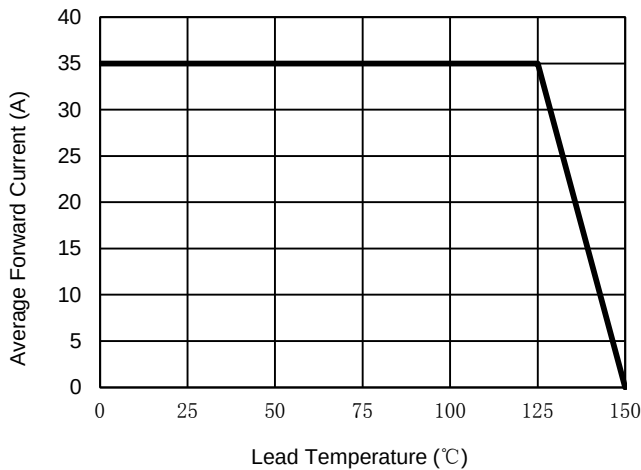


Fig. 2 - Maximum Non-Repetitive Surge Current

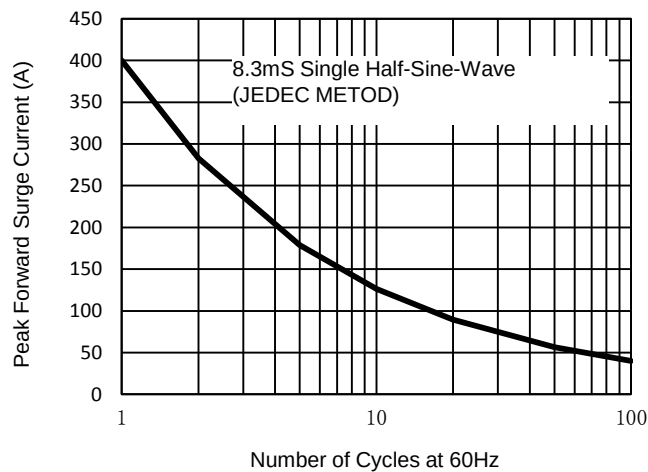


Fig. 3 - Pulse Waveform

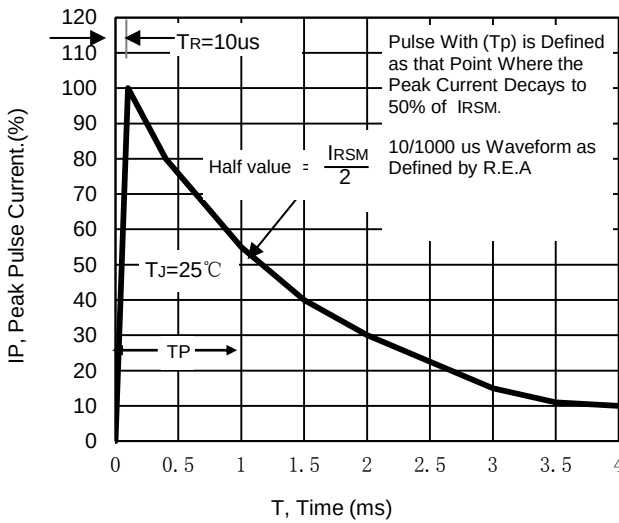


Fig. 4 - Typical Forward Characteristics

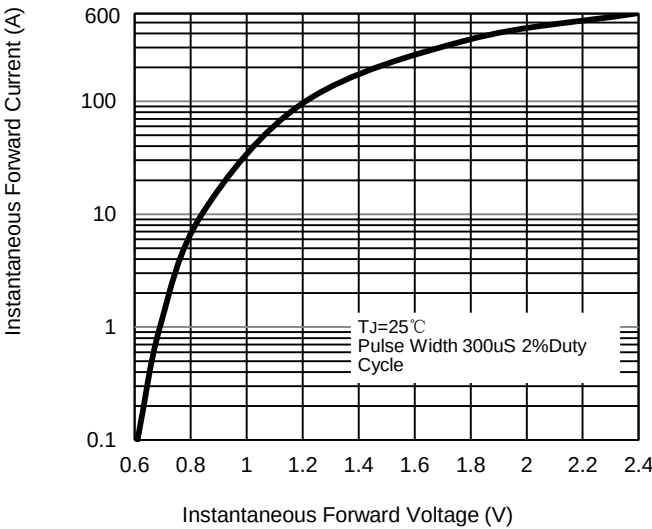
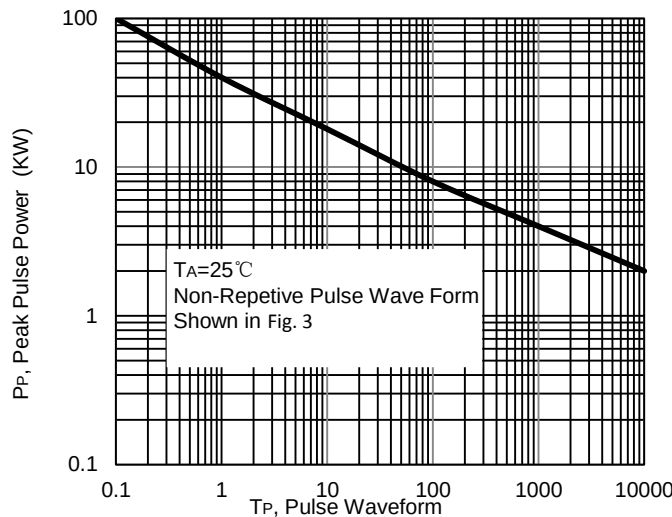


Fig. 5 - Pulse Rating Curve



The curve above is for reference only.



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 continuing 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.