



ARS3524 THRU ARS3540

Transient Voltage Suppressor for Automobile Button

Breakdown Voltage - 24 to 40Volts Forward Current - 35 Amperes

Features

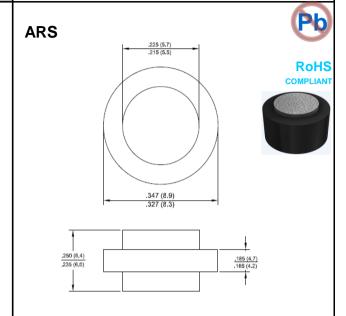
- High surge current capability
- Low loss
- Low forward voltage drop
- Low leakage current
- High surge forward current capability
- High temperature soldering guaranteed: 250 ℃/10S

Mechanical Data

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

Applications

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



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	ARS3	3524	ARS	3528	ARS	3540	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	16 20			2	28	V	
Working Peak Reverse Voltage	VRWM	16 20			2	28	V	
Maximum DC Blocking Voltage	VDC	16 20			2	28	V	
Breakdown voltage Min@ IBR=100mA/Ta=25°C	VBRL	20 24			3	88	V	
Breakdown voltage Max@ IBR=100mA/Ta=25°C	VBRH	26	6	3	32	4	2	V
Maximum Average Forward Rectified Current @T∟=125°C	I(AV)	35						Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	lғsм	400						А
I ² t Rating for Fusing (t<8.3mS)	l ² t	664						A ² S
Maximum Instantaneous Forward Voltage at Rated Forward Current	VF	1.0						V
Maximum DC Reverse Current at Rated DC Bolcking Voltage @TJ=25℃	lr	0.2						uA
Operating Junction Temperature Range	TJ	-55 to +150						$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +150						$^{\circ}$
Position of polarity ring denotes cathode, while color denotes voltage gradation.		Red	Yellow	Orange	Silver	Green	Blue	

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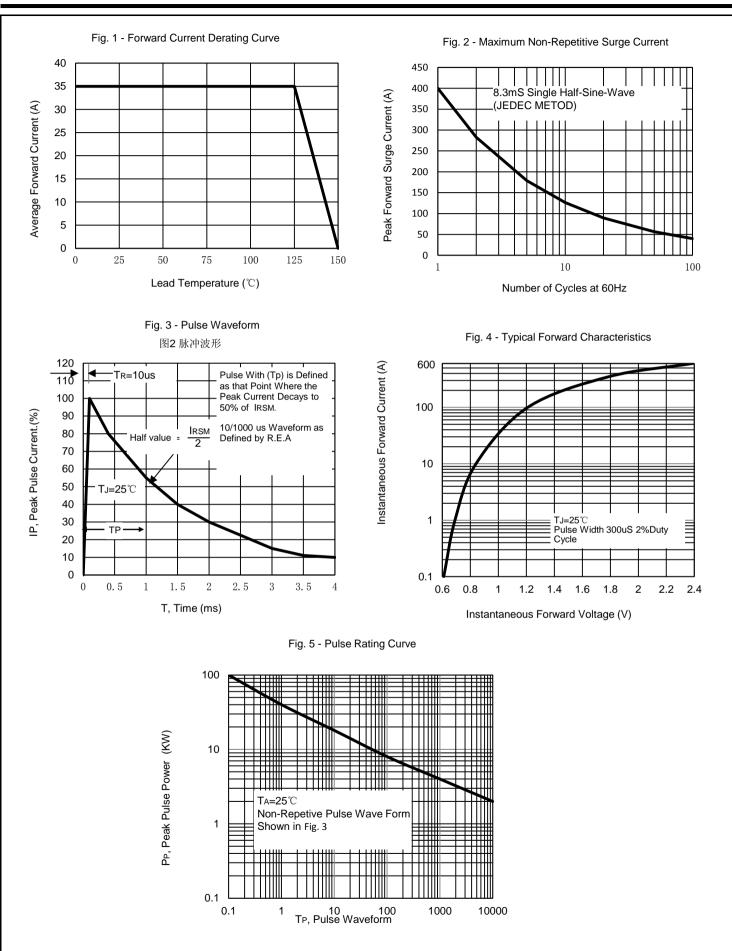
Note: The typical data above is for reference only

ARS35*-B-UN/99-00/01 Rev. 9, 22-Apr-2019

The curve above is for reference only.



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Rev. 2, 16-Mar-2017