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ARZ5024 THRU ARZ5040

Transient Voltage Suppressor for Automobile Button

Breakdown Voltage - 24 to 40Volts

Forward Current - 50 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

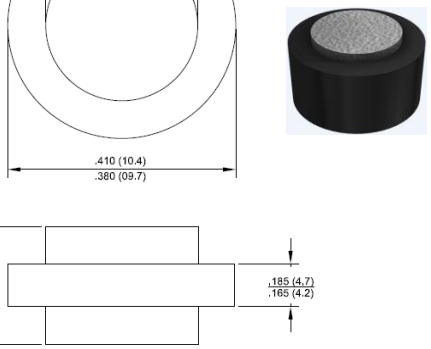
- Case: JEDEC AR molded plastic
- Polarity: Color band denotes cathode

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

Applications

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

AR



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	ARZ5024	ARZ5028	ARZ5040	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	16	20	28	V
Working Peak Reverse Voltage	V_{RWM}	16	20	28	V
Maximum DC Blocking Voltage	V_{DC}	16	20	28	V
Breakdown voltage Min@ I_{BR}=100mA/T_A=25℃	V_{BRL}	20	24	38	V
Breakdown voltage Max@ I_{BR}=100mA/T_A=25℃	V_{BRH}	26	32	42	V
Maximum Average Forward Rectified Current @T_L=125℃	$I_{(AV)}$	50			A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	500			A
I^2t Rating for Fusing (t<8.3mS)	I^2t	1037.5			A^2S
Maximum Instantaneous Forward Voltage at Rated Forward Current	V_F	1.0			V
Maximum DC Reverse Current at Rated DC Bolcking Voltage @T_J=25℃	I_R	0.2			uA
Operating Junction Temperature Range	T_J	-55 to +150			℃
Storage Temperature Range	T_{STG}	-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

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Fig. 1 - Forward Current Derating Curve

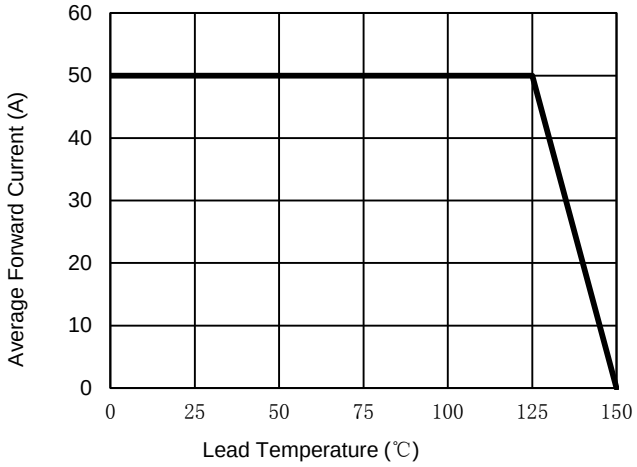


Fig. 2 - Maximum Non-Repetitive Surge Current

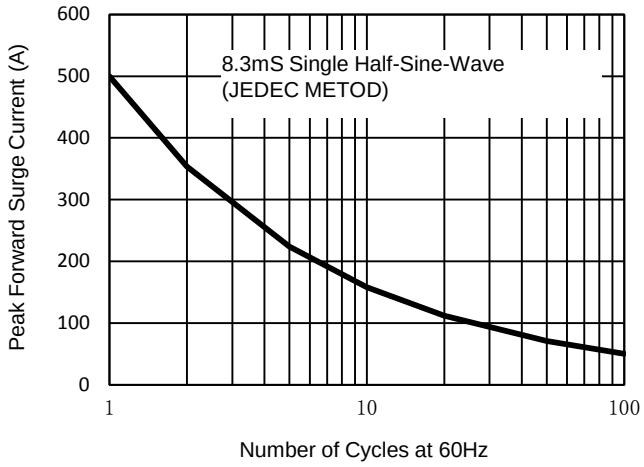


Fig. 3 - Pulse Waveform

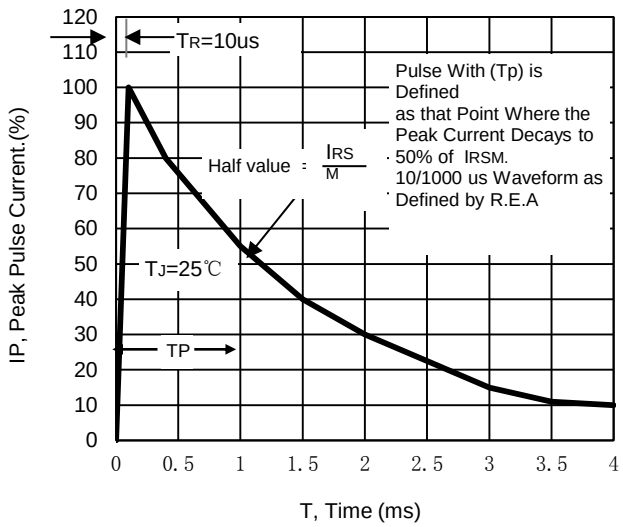


Fig. 4 - Typical Forward Characteristics

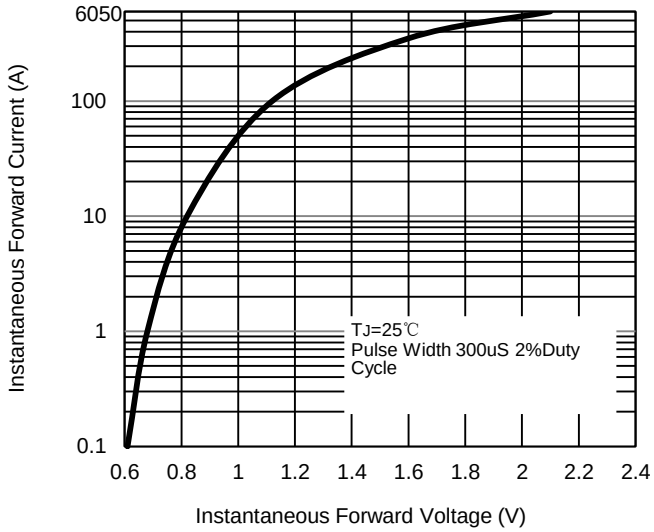
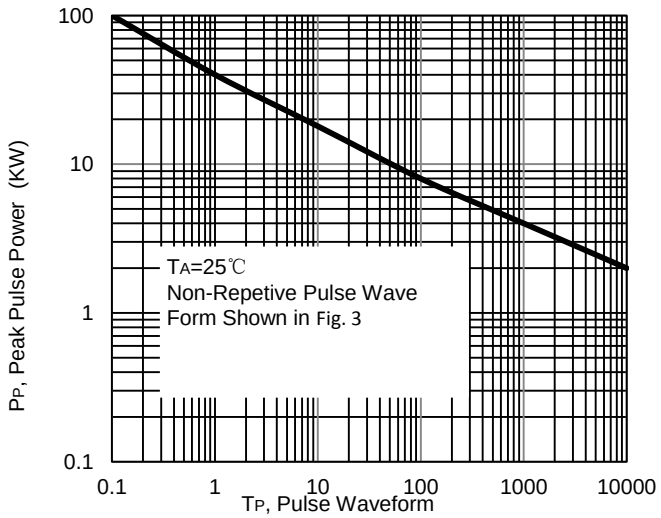


Fig 5 - Pulse Rating Curve



The curve above is for reference only.

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