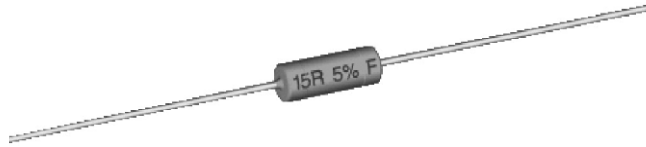


Axial Cemented, Fusible, Wirewound Resistors



FEATURES

- Can operate as both a normal resistor and as a fuse
- Fuses when overloaded by more than 100 times the rated power
- Ceramic core
- Non flammable cement coating
- Mainly designed to customer requirements

STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	POWER RATING P _{40 °C} W (max)	STANDARD TOLERANCE (max) ± %	NOMINAL RESISTANCE ¹⁾ (typical) Ω	TEMPERATURE COEFFICIENT (typical) ppm/°C	MAXIMUM PEAK ENERGY ²⁾ Ws (max)	MAXIMUM PEAK POWER ²⁾ W (max)	PERMISSIBLE I ² x t VALUE ³⁾ AT 40 °C A ² s (min)	FUSING I ² x t VALUE ³⁾ AT 40 °C A ² s (min)
Z302 BV 20327	3	10 5	15	100 to 180	1.07	1875	0.07	0.27

Notes: 1) Ambient temperature = 23 °C
 2) Ambient temperature = 40 °C
 3) Ambient temperature = 100 °C

CHARACTERISTICS OF FUSIBLE RESISTORS

Fusible resistors are capable of acting as both a regular resistor and as a fuse when abnormal current comes in. Since the two functions are performed by only one component the cost is lower.

The Z302 BV 20088 fuses when overloaded at more than 100 times the rated power. In line-powered devices, these fusible resistors can be used to act as a fuse when malfunction occurs and line voltage drops across the resistor.

To prevent flames or explosion when fusing, the device has an inflammable construction with high dielectric strength. After fusing the resistance value will be more than 100 kΩ to realize sufficient circuit break. The components are mainly designed specifically to customer requirements.

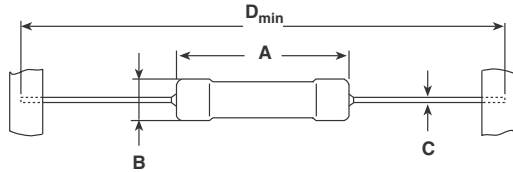
APPLICATIONS FOR FUSIBLE RESISTORS

- POWER SUPPLIES
- ENERGY SAVING LAMPS
- BATTERY CHARGES

GLOBAL PART NUMBER INFORMATION																	
New Global Part Numbering: Z32041441509JD2FON (preferred part numbering format)																	
Z	3	2	0	4	1	4	4	1	5	0	9	J	D	2	F	O	N
MODEL	TCR/MATERIAL		VALUE	TOLERANCE CODE		PACKAGING	SPECIAL										
Z302	4 = SWI (special winding)		3 digit value 1 digit multiplier Multiplier: 9 = *10 ⁻¹	J = ± 5.0 % K = ± 10.0 %		(see Packaging table)	The 5 digit BV number will be encoded using a 36 character code. This code contains numbers 0...9 and letters A...Z (36 characters total and allows to encode at least 46.655 five digit BV numbers. 000 = standard)										
Historical Part Number example: Z32041441509JD2FON 15 Ω 10 % SWI, reel 53 mm, 2000 pcs. (will continue to be accepted)																	
Z302	SWI		15 Ω	10 %		R2											
HISTORICAL MODEL	TCR/MATERIAL		VALUE	TOLERANCE CODE		PACKAGING											

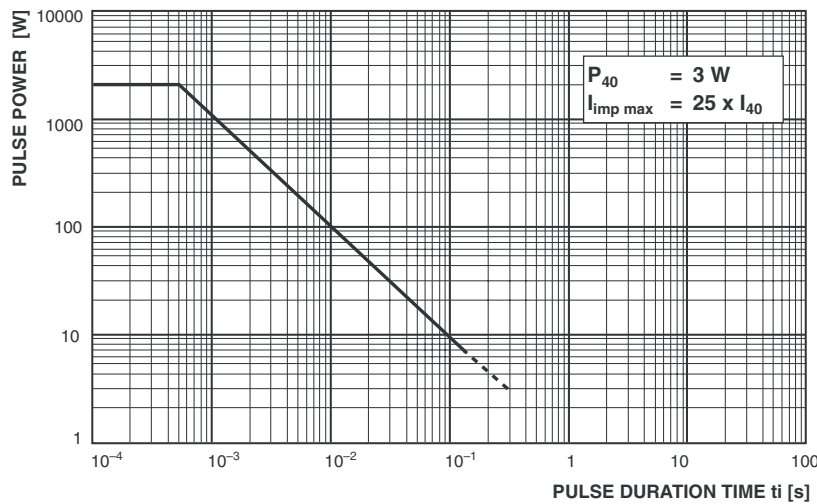
PACKAGING TABLE			
SAP	DRALORIC LEGACY	PACKAGING 2 digits	
D2	R2 G53	Reel pack tape 53 mm, 2000 pcs.	Z302 BV 20327

DIMENSIONS

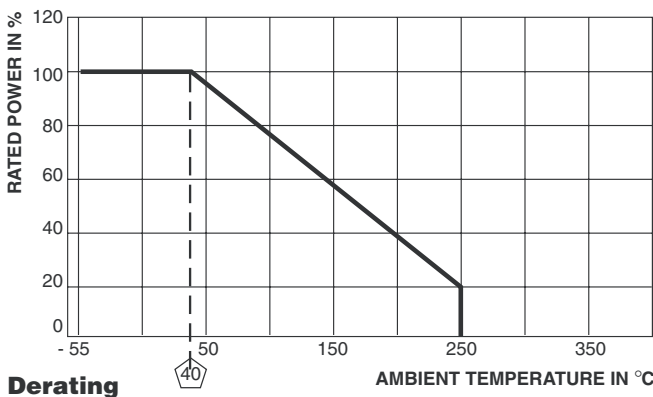


MODEL	DIMENSIONS in millimeters [inches]				
	A	B	C	D _{min}	WEIGHT (g)
Z302 BV 20327	13 [0.512]	4.8 [0.189]	0.8 [0.31]	53 ± 1 2.087 ± 0.039	0.8 Typical

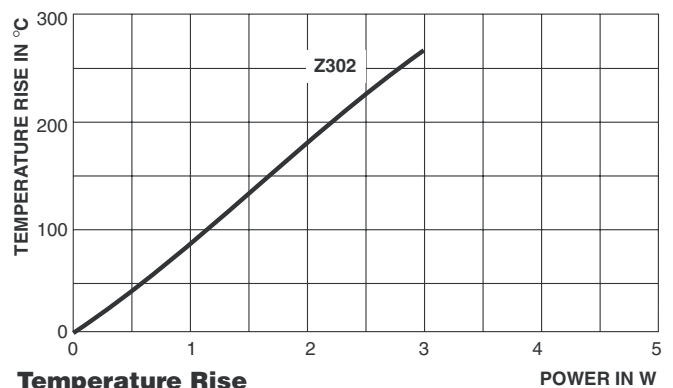
PERFORMANCE	
TEST	TEST RESULTS
Load Life, 12 000 hours	± 3 % ΔR
Vibration	± 1 % ΔR
Shock	± 1 % ΔR
Resistance to Soldering Heat	± 1 % ΔR



PULSE PERFORMANCE FOR SINGLE SQUARE PULSES at 40 °C



Derating



Temperature Rise



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.