



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: High Value/High Voltage Resistor

Element Type: Metal Film

Power Rating: 3 W

Resistance Value: 100K  $\Omega$

Resistance Class: 1k $\Omega$  – 1M $\Omega$

Features

Product Type Features

|               |                                  |
|---------------|----------------------------------|
| Resistor Type | High Value/High Voltage Resistor |
| Element Type  | Metal Film                       |

Configuration Features

|                     |   |
|---------------------|---|
| Number of Resistors | 1 |
|---------------------|---|

Electrical Characteristics

|                             |                           |
|-----------------------------|---------------------------|
| Power Rating                | 3 W                       |
| Resistance Value            | 100K $\Omega$             |
| Resistance Class            | 1k $\Omega$ – 1M $\Omega$ |
| Passive Component Tolerance | 5 %                       |

Termination Features

|                                         |        |
|-----------------------------------------|--------|
| Surface Mount Resistor Termination Type | Solder |
| Number of Terminations                  | 2      |

Dimensions

|  |  |
|--|--|
|  |  |
|--|--|



|                |                  |
|----------------|------------------|
| Product Height | 6.8 mm[.268 in]  |
| Product Length | 13.5 mm[.531 in] |
| Product Width  | 7.3 mm[.287 in]  |

Usage Conditions

|                         |             |
|-------------------------|-------------|
| Temperature Coefficient | ±200 ppm/°C |
|-------------------------|-------------|

Industry Standards

|                            |          |
|----------------------------|----------|
| Moisture Sensitivity Level | 1        |
| ESD HBM Classification     | 2        |
| UL Flammability Rating     | UL 94V-0 |

Packaging Features

|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

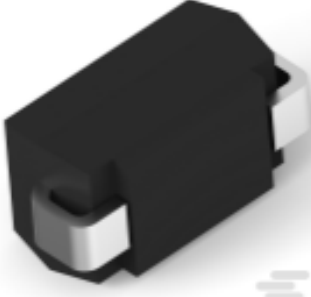
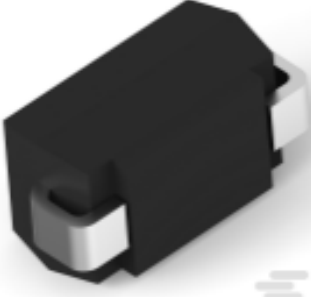
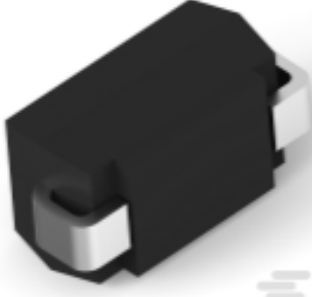
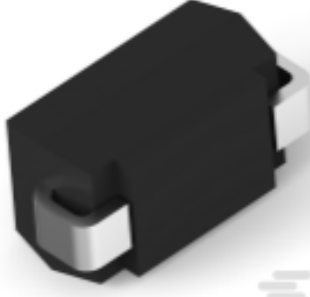
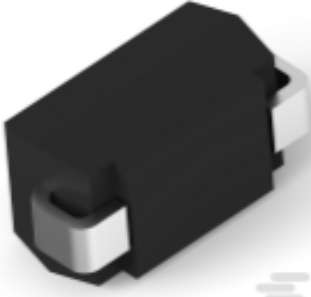
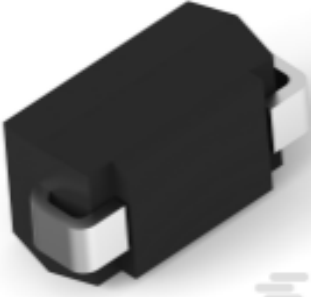
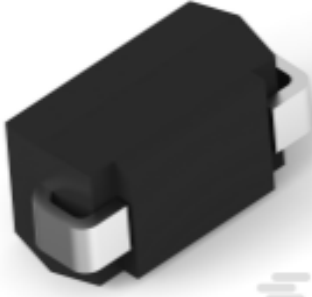
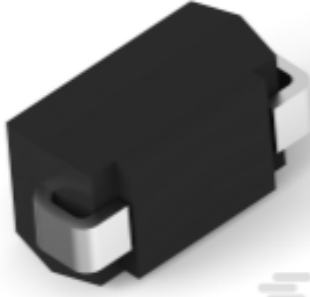
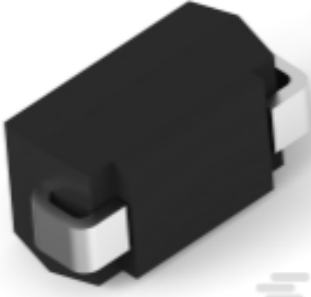
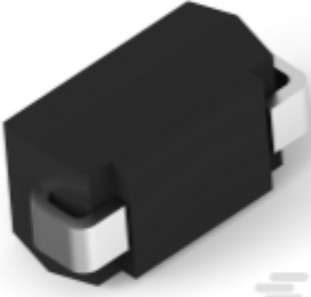
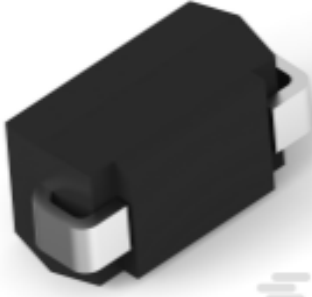
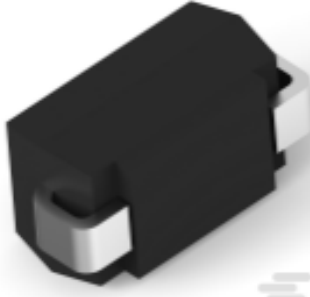
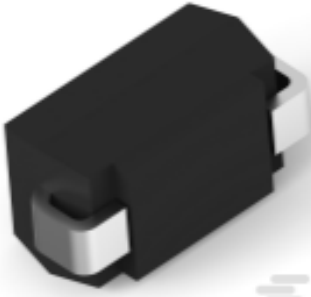
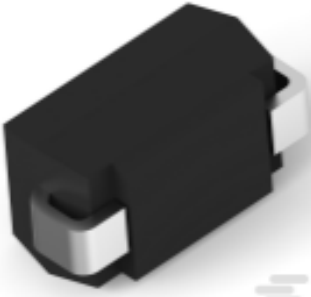
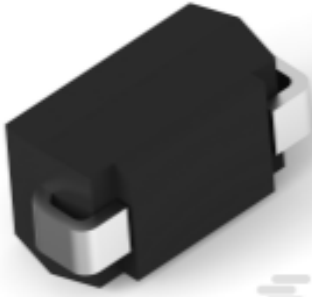
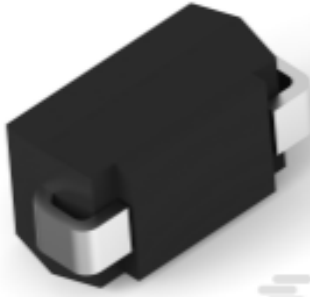
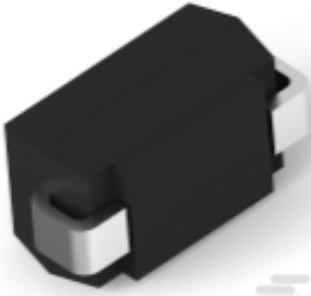
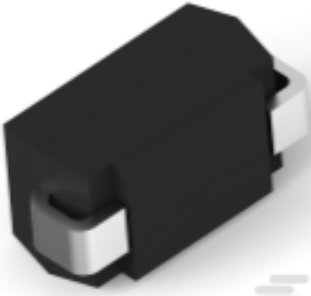
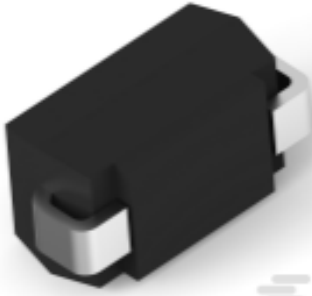
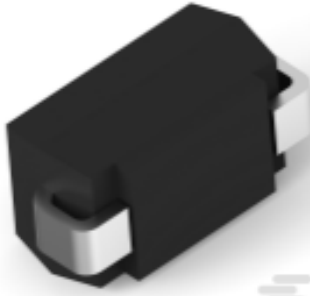
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|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                       |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                                       |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold                                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| Solder Process Capability                     | Reflow solder capable to 260°C                                                                                                  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>



Compatible Parts

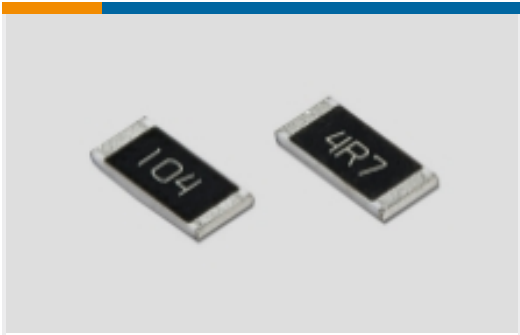
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|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <br>TE Part # 2176322-1<br>SMV 1W 100K 5%    | <br>TE Part # 2-2176322-5<br>SMV 1W 10M 5%  | <br>TE Part # 2176322-2<br>SMV 1W 120K 5%    | <br>TE Part # 2176322-3<br>SMV 1W 150K 5%     |
| <br>TE Part # 2176322-4<br>SMV 1W 180K 5%   | <br>TE Part # 1-2176322-3<br>SMV 1W 1M0 5% | <br>TE Part # 1-2176322-4<br>SMV 1W 1M2 5%  | <br>TE Part # 1-2176322-5<br>SMV 1W 1M5 5%   |
| <br>TE Part # 1-2176322-6<br>SMV 1W 1M8 5% | <br>TE Part # 2176322-5<br>SMV 1W 220K 5% | <br>TE Part # 2176322-6<br>SMV 1W 270K 5%  | <br>TE Part # 1-2176322-7<br>SMV 1W 2M2 5%  |
| <br>TE Part # 1-2176322-8<br>SMV 1W 2M7 5% | <br>TE Part # 2176322-7<br>SMV 1W 330K 5% | <br>TE Part # 2176322-8<br>SMV 1W 390K 5%  | <br>TE Part # 1-2176322-9<br>SMV 1W 3M3 5%  |
| <br>TE Part # 2-2176322-0<br>SMV 1W 3M9 5% | <br>TE Part # 2176322-9<br>SMV 1W 470K 5% | <br>TE Part # 2-2176322-1<br>SMV 1W 4M7 5% | <br>TE Part # 1-2176322-0<br>SMV 1W 560K 5% |

Also in the Series | CGS SMV

SMV3W100KJT

High Value/High Voltage Resistor, Metal Film, 3 W, 100K ohm, 5 %, ±200 ppm/°C, Solder, 2 Termination, Height 6.8 mm [.268 in], CGS SMV





Surface Mount Resistors(75)

Customers Also Bought



TE Part #2176231-8  
3522 20R 1% 3W



TE Part #749806-8  
KIT, HDP-20,RCPT,SIZE 2, 15 PO



TE Part #608036-1  
SILICONE FUSION TAPE,1"X36'



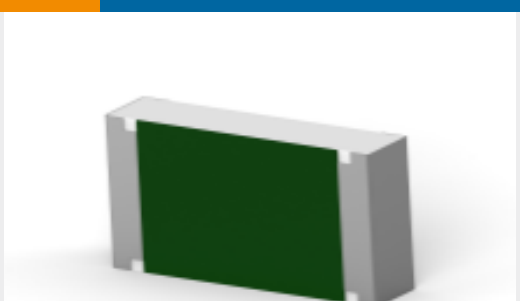
TE Part #6-1478762-7  
METAL BACKSHELL 25 WAY TOP ENTRY



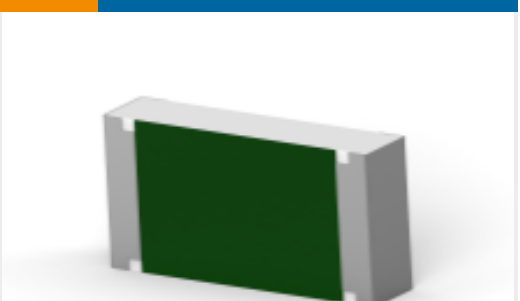
TE Part #66104-1  
III+ SKT,24-20,30AU>10,STRIP



TE Part #1-1625885-3  
1W SM M/OX 5% 10K



TE Part #6-2176397-5  
3502 470R 1%



TE Part #8-2176397-9  
3502 4K7 1%



TE Part #1-2176324-9  
SMV 3W 3M3 5%

Documents

Product Drawings  
SMV 3W 100K 5%

English

CAD Files  
3D PDF

3D

Customer View Model  
ENG\_CVM\_CVM\_2176324-1\_BA.2d\_dxf.zip

SMV3W100KJT

High Value/High Voltage Resistor, Metal Film, 3 W, 100K ohm, 5 %, ±200 ppm/°C,  
Solder, 2 Termination, Height 6.8 mm [.268 in], CGS SMV



English

Customer View Model

[ENG\\_CVM\\_CVM\\_2176324-1\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2176324-1\\_BA.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Metal glaze High Voltage SMD Resistor Type SMV series](#)

English