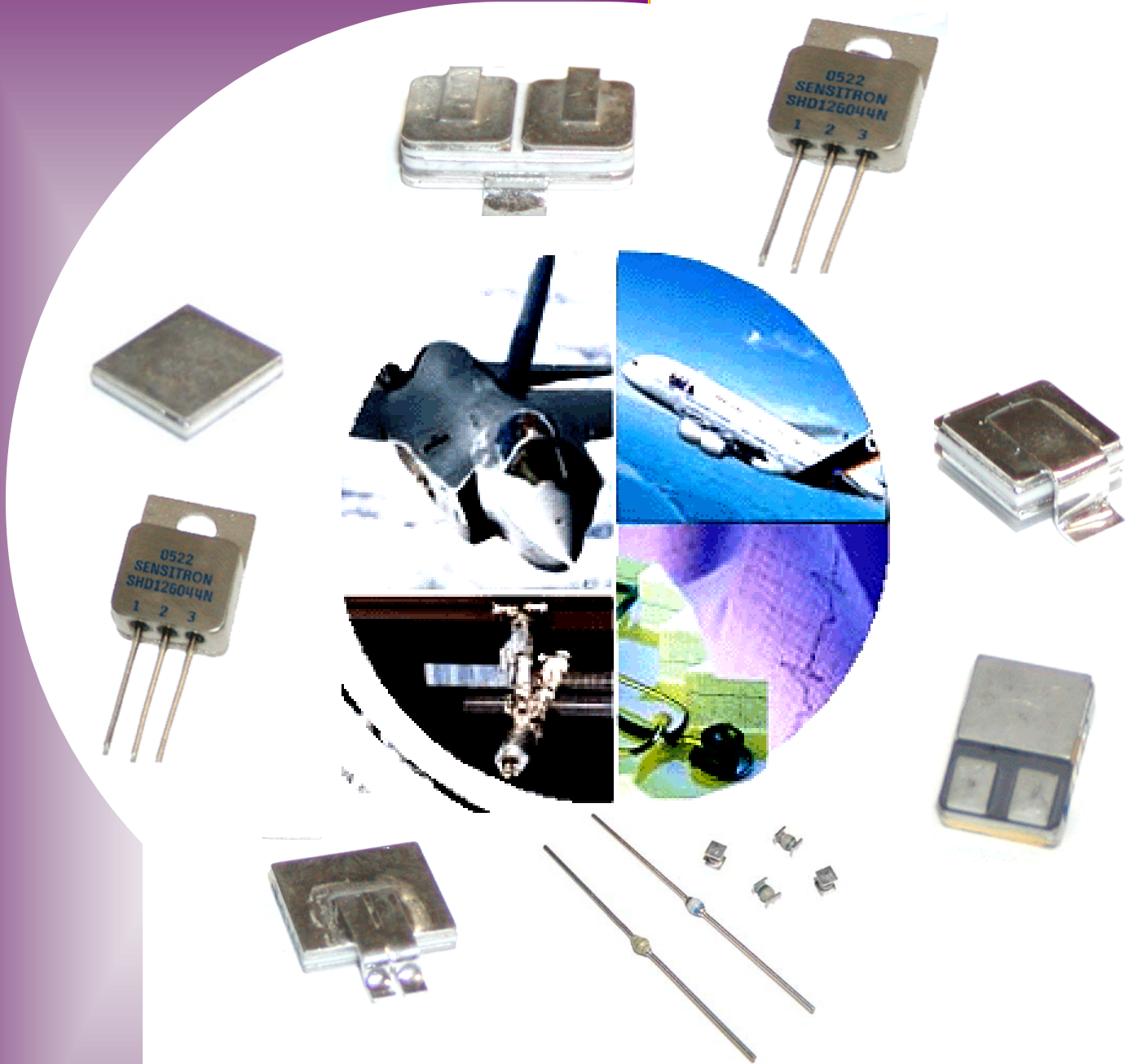


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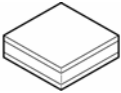
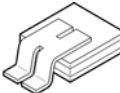
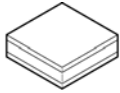
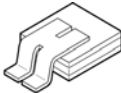
Hermetic Schottky Selection Guide

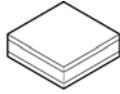
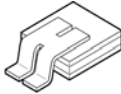
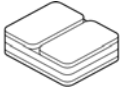
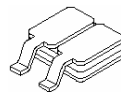

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Phone (631) 586 7600 · Fax (631) 242 9798 · World Wide Web - www.sensitron.com · E-mail - sales@sensitron.com

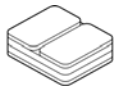
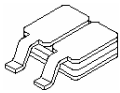

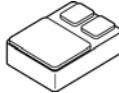
120-0606

Selection Guide

Surface Mount Packages

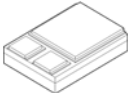
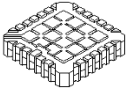
| Peak Inverse Voltage (V) | Peak V _F @25°C @ 15A (V) | Peak V _F @125°C @ 15A (V) |  |  | Peak V _F @25°C @60A (V) | Peak V _F @125°C @60A (V) |  |  |
|--------------------------|-------------------------------------|--------------------------------------|---|---|------------------------------------|-------------------------------------|---|---|
| | | | SHD-1 Single 15A | SHD-1B Single 15A | | | SHD-2 Single 60A | SHD-2B Single 60A |
| 15 | 0.37 | 0.33 | SHD116268 | SHD116268B | 0.41 | 0.37 | SHD115568 | SHD115568B |
| 30 | 0.49 | 0.39 | SHD116211 | SHD116211B | 0.53 | 0.43 | SHD115511 | SHD115511B |
| 45 | 0.56 | 0.51 | SHD116212 | SHD116212B | 0.60 | 0.57 | SHD115512 | SHD115512B |
| 45* | 0.64 | 0.57 | SHD116222 | SHD116222B | 0.66 | 0.59 | SHD115522 | SHD115522B |
| 60 | 0.56 | 0.51 | SHD116213 | SHD116213B | 0.60 | 0.57 | SHD115513 | SHD115513B |
| 60* | 0.64 | 0.57 | SHD116223 | SHD116223B | 0.66 | 0.59 | SHD115523 | SHD115523B |
| 100* | 0.84 | 0.68 | SHD116234 | SHD116234B | 0.87 | 0.72 | SHD115534 | SHD115534B |
| 150* | 0.88 | 0.72 | SHD116245 | SHD116245B | 0.91 | 0.75 | SHD115545 | SHD115545B |
| 200* | 0.92 | 0.76 | SHD116236 | SHD116236B | 0.95 | 0.79 | SHD115536 | SHD115536B |

| Peak Inverse Voltage (V) | Peak V _F @25°C @120A (V) | Peak V _F @125°C @120A (V) |  |  | Peak V _F @25°C @15A (V) | Peak V _F @125°C @15A (V) |  |  |  |
|--------------------------|-------------------------------------|--------------------------------------|---|---|------------------------------------|-------------------------------------|---|---|---|
| | | | SHD-3 Single 120A | SHD-3B Single 120A | | | SHD-4 Dual 30A | SHD-4A Dual 30A | SHD-4B Dual 30A |
| 15 | 0.41 | 0.37 | SHD114668 | SHD114668B | 0.37 | 0.33 | SHD117268 | SHD117268A | SHD117268B |
| 30 | 0.53 | 0.43 | SHD114611 | SHD114611B | 0.49 | 0.39 | SHD117211 | SHD117211A | SHD117211B |
| 45 | 0.60 | 0.57 | SHD114612 | SHD114612B | 0.56 | 0.51 | SHD117212 | SHD117212A | SHD117212B |
| 45* | 0.66 | 0.59 | SHD114622 | SHD114622B | 0.64 | 0.57 | SHD117222 | SHD117222A | SHD117222B |
| 60 | 0.60 | 0.57 | SHD114613 | SHD114613B | 0.56 | 0.51 | SHD117213 | SHD117213A | SHD117213B |
| 60 | 0.66 | 0.59 | SHD114623 | SHD114623B | 0.64 | 0.57 | SHD117223 | SHD117223A | SHD117223B |
| 100* | 0.87 | 0.72 | SHD114634 | SHD114634B | 0.84 | 0.68 | SHD117234 | SHD117234A | SHD117234B |
| 150* | 0.91 | 0.75 | SHD114645 | SHD114645B | 0.88 | 0.72 | SHD117245 | SHD117245A | SHD117245B |
| 200* | 0.95 | 0.79 | SHD114636 | SHD114636B | 0.92 | 0.76 | SHD117236 | SHD117236A | SHD117236B |

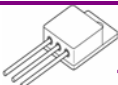
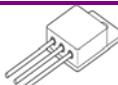
| Peak Inverse Voltage (V) | Peak V _F @25°C @60A (V) | Peak V _F @25°C @60A (V) |  |  |  |  LCC-5 (Industry standard type SMD0.5) | | | | | |
|--------------------------|------------------------------------|------------------------------------|---|---|---|---|---------------------------------|---------------------|---------------------------------|----------------------------------|-------------------|
| | | | SHD-5 Dual 120A | SHD-5A Dual 120A | SHD-5B Dual 120A | Peak V _F @25°C @15A | Peak V _F @125°C @15A | SHD-5 Single 15A | Peak V _F @25°C @7.5A | Peak V _F @125°C @7.5A | SHD-5 Dual 15A |
| 15 | 0.41 | 0.37 | SHD118568 | SHD118568A | SHD118568B | 0.46 | 0.42 | SHD120268 | 0.42 | 0.38 | SHD120068P |
| 30 | 0.53 | 0.43 | SHD118511 | SHD118511A | SHD118511B | 0.58 | 0.48 | SHD120211 | 0.57 | 0.47 | SHD120111P |
| 45 | 0.60 | 0.57 | SHD118512 | SHD118512A | SHD118512B | 0.65 | 0.60 | SHD120212 | 0.64 | 0.59 | SHD120112P |
| 45* | 0.66 | 0.59 | SHD118522 | SHD118522A | SHD118522B | 0.73 | 0.66 | SHD120222 | 0.72 | 0.65 | SHD120122P |
| 60 | 0.60 | 0.57 | SHD118513 | SHD118513A | SHD118513B | 0.65 | 0.60 | SHD120213 | 0.64 | 0.59 | SHD120113P |
| 60* | 0.66 | 0.59 | SHD118523 | SHD118523A | SHD118523B | 0.73 | 0.66 | SHD120223 | 0.72 | 0.65 | SHD120123P |
| 100* | 0.87 | 0.72 | SHD118534 | SHD118534A | SHD118534B | 0.93 | 0.77 | SHD120234 | 0.92 | 0.76 | SHD120134P |
| 150* | 0.91 | 0.75 | SHD118545 | SHD118545A | SHD118545B | 0.97 | 0.81 | SHD120245 | 0.96 | 0.80 | SHD120145P |
| 200* | 0.95 | 0.79 | SHD118536 | SHD118536A | SHD118536B | 1.01 | 0.85 | SHD120236 | 1.00 | 0.84 | SHD120136P |

Selection Guide

Surface Mount Packages

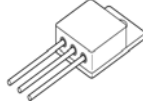
| Peak Inverse Voltage (V) |  LCC-3P (Industry standard type SMD1) | | | | | |  LCC-28T | | | | | |
|--------------------------|--|-----------------------------|------------|----------------------------|-----------------------------|------------|---|-----------------------------|------------|---------------------------|----------------------------|------------|
| | V _F @ 25°C @15A | V _F @ 125°C @15A | Dual 30A | V _F @ 25°C @45A | V _F @ 125°C @45A | Single 45A | V _F @ 25°C @10A | V _F @ 125°C @10A | Single 10A | V _F @ 25°C @5A | V _F @ 125°C @5A | Dual 10A |
| | 15 | 0.46 | 0.42 | SHD119268P | 0.52 | 0.46 | SHD119568 | | | N/A | | |
| 30 | 0.58 | 0.48 | SHD119211P | 0.60 | 0.46 | SHD119611 | 0.47 | 0.37 | SHD130511 | 0.53 | 0.44 | SHD130111P |
| 45 | 0.65 | 0.60 | SHD119212P | 0.60 | 0.50 | SHD119612 | 0.50 | 0.40 | SHD130512 | 0.58 | 0.50 | SHD130112P |
| 45* | 0.73 | 0.66 | SHD119222P | 0.68 | 0.58 | SHD119622 | 0.55 | 0.45 | SHD130522 | 0.63 | 0.55 | SHD130122P |
| 60 | 0.65 | 0.60 | SHD119213P | 0.60 | 0.50 | SHD119613 | 0.50 | 0.40 | SHD130513 | 0.58 | 0.50 | SHD130113P |
| 60* | 0.73 | 0.66 | SHD119223P | 0.68 | 0.58 | SHD119623 | 0.55 | 0.45 | SHD130523 | 0.63 | 0.55 | SHD130123P |
| 100* | 0.93 | 0.77 | SHD119234P | 0.92 | 0.74 | SHD119634 | 0.75 | 0.60 | SHD130534 | 0.83 | 0.69 | SHD130134P |
| 150* | 0.97 | 0.81 | SHD119245P | 0.96 | 0.77 | SHD119645 | 0.78 | 0.64 | SHD130545 | 0.86 | 0.73 | SHD130145P |
| 200* | 1.01 | 0.85 | SHD119236P | 1.00 | 0.80 | SHD119636 | 0.82 | 0.68 | SHD130536 | 0.90 | 0.77 | SHD130136P |

Through Hole Packages

| Peak Inverse Voltage (V) |  TO-257 | | | | | |  TO-254 | | | | | |
|--------------------------|--|-----------------------------|------------|----------------------------|-----------------------------|--|--|-----------------------------|------------|----------------------------|-----------------------------|--|
| | V _F @ 25°C @16A | V _F @ 125°C @16A | Single 16A | V _F @ 25°C @16A | V _F @ 125°C @16A | Dual 16A | V _F @ 25°C @35A | V _F @ 125°C @35A | Single 35A | V _F @ 25°C @30A | V _F @ 125°C @30A | Dual 35A |
| 15 | 0.46 | 0.42 | SHD126468 | 0.5 | 0.46 | SHD126268D SHD126268N SHD126268P | 0.5 | 0.45 | SHD125668 | 0.46 | 0.42 | SHD125468D SHD125468N SHD125468P |
| 30 | 0.55 | 0.43 | SHD126411 | 0.62 | 0.52 | SHD126211D SHD126211N SHD126211P | 0.63 | 0.51 | SHD125611 | 0.66 | 0.56 | SHD125411D SHD125411N SHD125411P |
| 45 | 0.56 | 0.46 | SHD126412 | 0.69 | 0.64 | SHD126212D SHD126212N SHD126212P | 0.65 | 0.54 | SHD125612 | 0.73 | 0.68 | SHD125412D SHD125412N SHD125412P |
| 45* | 0.64 | 0.54 | SHD126422 | 0.77 | 0.70 | SHD126222D SHD126222N SHD126222P | 0.73 | 0.62 | SHD125622 | 0.81 | 0.74 | SHD125422D SHD125422N SHD125422P |
| 60 | 0.56 | 0.46 | SHD126413 | 0.69 | 0.64 | SHD126213D SHD126213N SHD126213P | 0.65 | 0.54 | SHD125613 | 0.73 | 0.68 | SHD125413D SHD125413N SHD125413P |
| 60* | 0.64 | 0.54 | SHD126423 | 0.77 | 0.70 | SHD126223D SHD126223N SHD126223P | 0.73 | 0.62 | SHD125623 | 0.81 | 0.74 | SHD125423D SHD125423N SHD125423P |
| 100* | 0.90 | 0.71 | SHD126434 | 0.93 | 0.77 | SHD126234D SHD126234N SHD126234P | 0.97 | 0.79 | SHD125634 | 1.01 | 0.85 | SHD125434D SHD125434N SHD125434P |
| 150* | 0.93 | 0.75 | SHD126445 | 0.97 | 0.81 | SHD126245D SHD126245N SHD126245P | 1.01 | 0.83 | SHD125635 | 1.05 | 0.89 | SHD125445D SHD125445N SHD125445P |
| 200* | 0.96 | 0.80 | SHD126436 | 1.01 | 0.85 | SHD126236D SHD126236N SHD126236P | 1.05 | 0.87 | SHD125636 | 1.09 | 0.93 | SHD125436D SHD125436N SHD125436P |

Selection Guide

Through Hole Packages



TO-258

| Peak Inverse Voltage (V) | Peak V_F @ 25°C @45A (V) | | Peak V_F @ 125°C @45A (V) | | Peak V_F @ 125°C @45A (V) | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|--|
| | Peak V_F @ 25°C @45A (V) | Peak V_F @ 125°C @45A (V) | Single 45A | Peak V_F @ 25°C @45A (V) | Peak V_F @ 125°C @45A (V) | Dual 45A |
| 15 | 0.63 0.57 | 0.58 0.53 | SHD124568 SHD124668 | 0.54 | 0.5 | SHD124468D SHD124468N SHD124468P |
| 30 | 0.71 | 0.58 | SHD124611 | 0.74 | 0.63 | SHD124511D SHD124511N SHD124511P |
| 45 | 0.71 | 0.61 | SHD124612 | 0.78 | 0.69 | SHD124512D SHD124512N SHD124512P |
| 45* | 0.79 | 0.69 | SHD124622 | 0.86 | 0.77 | SHD124522D SHD124522N SHD124522P |
| 60 | 0.71 | 0.61 | SHD124613 | 0.78 | 0.69 | SHD124513D SHD124513N SHD124513P |
| 60* | 0.79 | 0.69 | SHD124623 | 0.86 | 0.77 | SHD124523D SHD124523N SHD124523P |
| 100* | 1.04 | 0.86 | SHD124634 | 1.10 | 0.92 | SHD124534D SHD124534N SHD124534P |
| 150* | 1.07 | 0.88 | SHD124645 | 1.14 | 0.96 | SHD124545D SHD124545N SHD124545P |
| 200* | 1.11 | 0.91 | SHD124636 | 1.18 | 1.02 | SHD124536D SHD124536N SHD124536P |

Axial Leaded and Surface Mount MELF Package

| Peak Inverse Voltage (V) | Max IR @Peak Inverse Voltage (μA) | Peak V_F @1.0A (V) | DO-213AB | | Maximum V_F @1mA (V) | Maximum V_F @15mA (V) | DO-35 | |
|--------------------------|-----------------------------------|----------------------|----------|------------|------------------------|-------------------------|----------|------------|
| | | | DO-213AB | DO-213AB | | | DO-35 | DO-213AA |
| 45 | 50 | 0.49 | 1N5819-1 | 1N5819UR-1 | | | | |
| 50 | | | | | 0.41 | 1.00 | 1N5711-1 | 1N5711UR-1 |
| 100 | 10 | 0.84 | 1N6824-1 | 1N6824UR-1 | | | | |

* Low Leakage Process

- Notes: 1) Highest current devices are listed. Lower current & capacitance devices available as standard products on the web.
 2) Suffix "P" denotes common cathode, suffix "N" denotes common anode, suffix "D" denotes doubler.
 3) Trr for 200V devices will degrade with temperature.