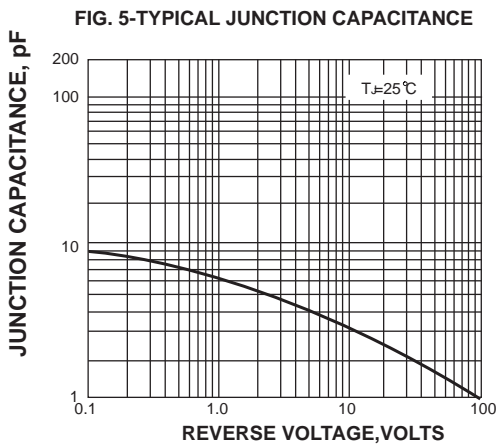
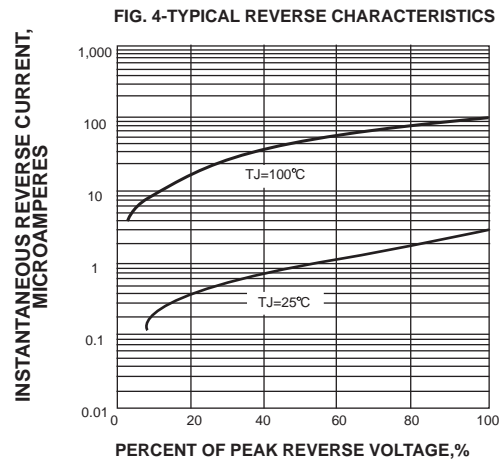
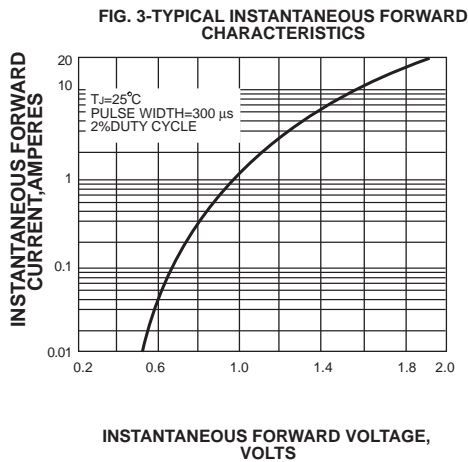
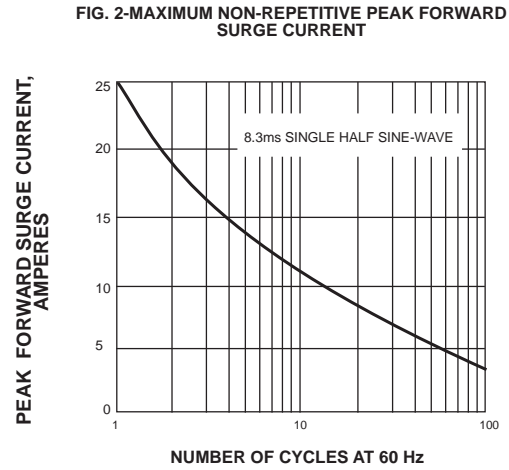
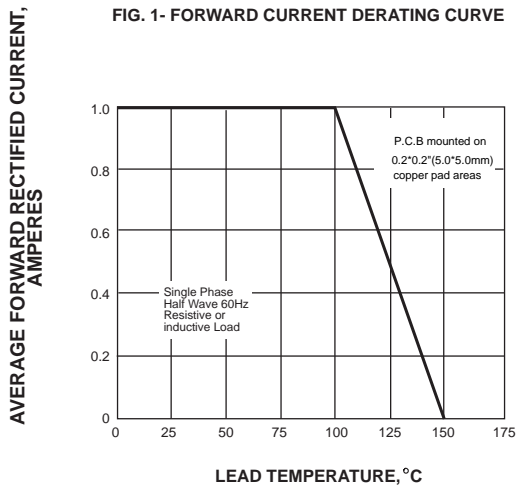


SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER	Reverse Voltage - 50 to 1000 Volts Forward Current -1.0 Ampere																																																																																																												
<p style="text-align: center;">SOD-123FL</p> <p style="text-align: center; font-size: small;">Dimensions in inches and (millimeters)</p>	<p>Features</p> <ul style="list-style-type: none"> ◆ Glass passivated device ◆ Ideal for surface mounted applications ◆ Low reverse leakage ◆ Metallurgically bonded construction ◆ High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension <p>Mechanical Data</p> <p>Case: SOD-123FL molded plastic body over passivated chip Terminals: Solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.0007 ounce, 0.02 grams</p>																																																																																																												
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS																																																																																																													
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.																																																																																																													
	<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width:15%;">SYMBOLS</th> <th style="width:10%;">1N4001W</th> <th style="width:10%;">1N4002W</th> <th style="width:10%;">1N4003W</th> <th style="width:10%;">1N4004W</th> <th style="width:10%;">1N4005W</th> <th style="width:10%;">1N4006W</th> <th style="width:10%;">1N4007W</th> <th style="width:10%;">UNITS</th> </tr> <tr> <td></td> <td style="text-align: center;">A1</td> <td style="text-align: center;">A2</td> <td style="text-align: center;">A3</td> <td style="text-align: center;">A4</td> <td style="text-align: center;">A5</td> <td style="text-align: center;">A6</td> <td style="text-align: center;">A7</td> <td></td> </tr> </thead> <tbody> <tr> <td>Maximum repetitive peak reverse voltage</td> <td style="text-align: center;">50</td> <td style="text-align: center;">100</td> <td style="text-align: center;">200</td> <td style="text-align: center;">400</td> <td style="text-align: center;">600</td> <td style="text-align: center;">800</td> <td style="text-align: center;">1000</td> <td style="text-align: center;">V</td> </tr> <tr> <td>Maximum RMS voltage</td> <td style="text-align: center;">35</td> <td style="text-align: center;">70</td> <td style="text-align: center;">140</td> <td style="text-align: center;">280</td> <td style="text-align: center;">420</td> <td style="text-align: center;">560</td> <td style="text-align: center;">700</td> <td style="text-align: center;">V</td> </tr> <tr> <td>Maximum DC blocking voltage</td> <td style="text-align: center;">50</td> <td style="text-align: center;">100</td> <td style="text-align: center;">200</td> <td style="text-align: center;">400</td> <td style="text-align: center;">600</td> <td style="text-align: center;">800</td> <td style="text-align: center;">1000</td> <td style="text-align: center;">V</td> </tr> <tr> <td>Maximum average forward rectified current at $T_L=100^\circ\text{C}$ (NOTE 1)</td> <td colspan="7" style="text-align: center;">1.0</td> <td style="text-align: center;">A</td> </tr> <tr> <td>Peak forward surge current 8.3ms single half sine-wave superimposed on rated load</td> <td colspan="7" style="text-align: center;">25.0</td> <td style="text-align: center;">A</td> </tr> <tr> <td>Maximum instantaneous forward voltage at 1.0A</td> <td colspan="7" style="text-align: center;">1.1</td> <td style="text-align: center;">V</td> </tr> <tr> <td>Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$</td> <td colspan="7" style="text-align: center;">10.0 50.0</td> <td style="text-align: center;">μA</td> </tr> <tr> <td>Typical junction capacitance (NOTE 2)</td> <td colspan="7" style="text-align: center;">4</td> <td style="text-align: center;">pF</td> </tr> <tr> <td>Typical thermal resistance (NOTE 3)</td> <td colspan="7" style="text-align: center;">95</td> <td style="text-align: center;">$^\circ\text{C/W}$</td> </tr> <tr> <td>Operating junction and storage temperature range</td> <td colspan="7" style="text-align: center;">-55 to +150</td> <td style="text-align: center;">$^\circ\text{C}$</td> </tr> </tbody> </table>	SYMBOLS	1N4001W	1N4002W	1N4003W	1N4004W	1N4005W	1N4006W	1N4007W	UNITS		A1	A2	A3	A4	A5	A6	A7		Maximum repetitive peak reverse voltage	50	100	200	400	600	800	1000	V	Maximum RMS voltage	35	70	140	280	420	560	700	V	Maximum DC blocking voltage	50	100	200	400	600	800	1000	V	Maximum average forward rectified current at $T_L=100^\circ\text{C}$ (NOTE 1)	1.0							A	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	25.0							A	Maximum instantaneous forward voltage at 1.0A	1.1							V	Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	10.0 50.0							μA	Typical junction capacitance (NOTE 2)	4							pF	Typical thermal resistance (NOTE 3)	95							$^\circ\text{C/W}$	Operating junction and storage temperature range	-55 to +150							$^\circ\text{C}$
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<p>Note: 1. Averaged over any 20ms period. 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3. PCB mounted on 0.2*0.2" (5.0*5.0mm) copper pad area.</p>																																																																																																													

RATINGS AND CHARACTERISTIC CURVES 1N4001W THRU 1N4007W



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[>>DIOS\(迪恩思\)](#)