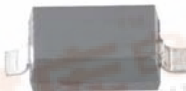
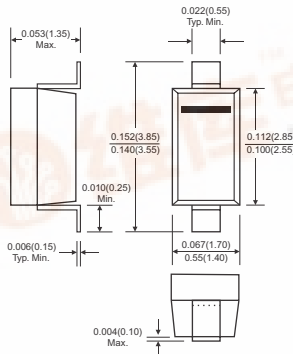


	SD120P THRU SD1100P 1.0 Amp Schottky Barrier Rectifiers																																																																																																				
	Voltage Range 20 to 100 Volts Current 1.0 Amperes																																																																																																				
Features ✧ Low forward voltage ✧ Extremely Low thermal resistance ✧ High Current Capability ✧ For surface mount application ✧ Higher temp soldering: 260°C for 10 seconds at terminals	SOD-123  Dimensions in inches and (millimeters)																																																																																																				
Mechanical Data ✧ Case: SOD-123, plastic ✧ Polarity: Cathode band ✧ Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed ✧ Mounting position: Any ✧ Marking: As below table																																																																																																					
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.																																																																																																					
Maximum Ratings and Electrical Characteristics <table><tr><th>Type Number</th><th>Symbol</th><th>SD 120P</th><th>SD 130P</th><th>SD 140P</th><th>SD 160P</th><th>SD 190P</th><th>SD 1100P</th><th>Units</th></tr><tr><td>Marking Code</td><td></td><td>BR</td><td>BU</td><td>BM</td><td>BY</td><td>BZ</td><td>BX</td><td></td></tr><tr><td>Maximum Recurrent Peak Reverse Voltage</td><td>V_{RRM}</td><td>20</td><td>30</td><td>40</td><td>60</td><td>90</td><td>100</td><td>V</td></tr><tr><td>Working Peak Reverse Voltage</td><td>V_{RMS}</td><td>20</td><td>30</td><td>40</td><td>60</td><td>90</td><td>100</td><td>V</td></tr><tr><td>Maximum DC Blocking Voltage</td><td>V_{DC}</td><td>20</td><td>30</td><td>40</td><td>60</td><td>90</td><td>100</td><td>V</td></tr><tr><td>Average Forward Current ($I_{F(AV)}$ @ $T_J=90^{\circ}C$)</td><td>$I_{(AV)}$</td><td colspan="6">1.0</td><td>A</td></tr><tr><td>Peak Forward Current (I_{FSM} @ 8.3ms half sine)</td><td>I_{FSM}</td><td colspan="6">20</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 1.0A</td><td>V_F</td><td>0.45</td><td>0.52</td><td>0.65</td><td>0.83</td><td colspan="2"></td><td>V</td></tr><tr><td>Maximum DC Reverse Current at Rate DC Blocking Voltage</td><td>I_R</td><td colspan="6">0.3</td><td>mA</td></tr><tr><td>Typical Junction Capacitance</td><td>C_j</td><td colspan="6">30</td><td>pF</td></tr><tr><td>Operating and Storage Temperature Range</td><td>T_J, T_{STG}</td><td colspan="6">-50 to + 150 / -65 to + 175</td><td>°C</td></tr></table>			Type Number	Symbol	SD 120P	SD 130P	SD 140P	SD 160P	SD 190P	SD 1100P	Units	Marking Code		BR	BU	BM	BY	BZ	BX		Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	60	90	100	V	Working Peak Reverse Voltage	V_{RMS}	20	30	40	60	90	100	V	Maximum DC Blocking Voltage	V_{DC}	20	30	40	60	90	100	V	Average Forward Current ($I_{F(AV)}$ @ $T_J=90^{\circ}C$)	$I_{(AV)}$	1.0						A	Peak Forward Current (I_{FSM} @ 8.3ms half sine)	I_{FSM}	20						A	Maximum Instantaneous Forward Voltage @ 1.0A	V_F	0.45	0.52	0.65	0.83			V	Maximum DC Reverse Current at Rate DC Blocking Voltage	I_R	0.3						mA	Typical Junction Capacitance	C_j	30						pF	Operating and Storage Temperature Range	T_J, T_{STG}	-50 to + 150 / -65 to + 175						°C
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RATINGS AND CHARACTERISTIC CURVES (SD120P THRU SD1100P)

FIG.1- FORWARD DERATING CURVE

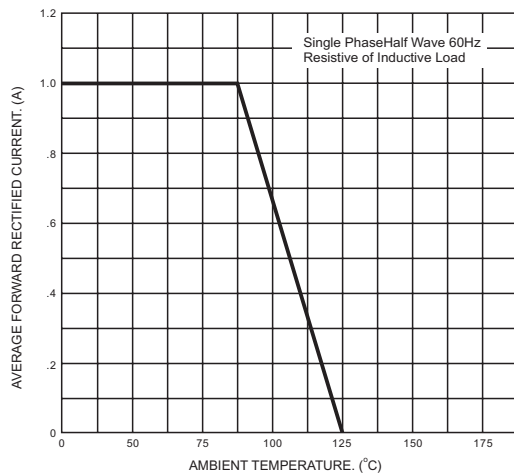


FIG.2- JUNCTION CAPACITANCE

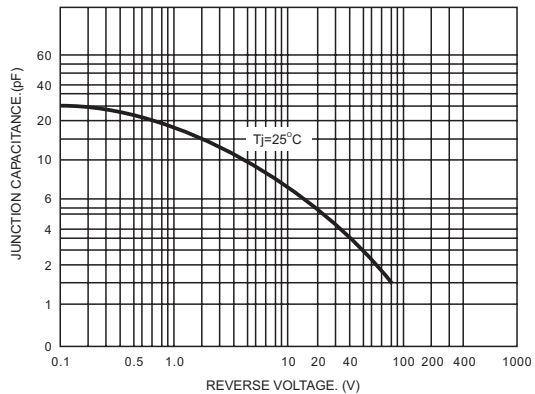


FIG.3- TYPICAL FORWARD CHARACTERISTICS

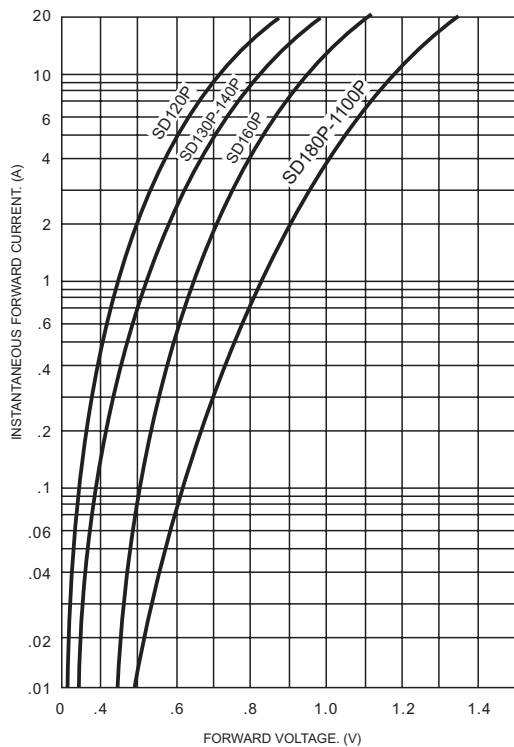


FIG.4- PEAK FORWARD SURGE CURRENT

