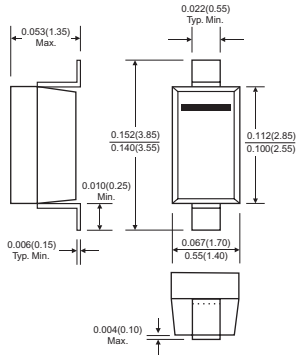
SD120P THRU SD1100P

1.0 Amp Schottky Barrier Rectifiers



Voltage Range
20 to 100 Volts
Current
1.0 Amperes

SOD-123



Dimensions in inches and (millimeters)

Features

- ✧ Low forward voltage
- ✧ Extremely Low thermal resistance
- ✧ High Current Capability
- ✧ For surface mount application
- ✧ Higher temp soldering: 260℃ for 10 seconds at terminals

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℃ ambient temperature unless otherwise specified.

Maximum Ratings and Electrical Characteristics

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 ^{O}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	Cj	30						pF
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to + 150 / -65 to + 175						^{O}C

RATINGS AND CHARACTERISTIC CURVES (SD120P THRU SD1100P)

FIG.1- FORWARD DERATING CURVE

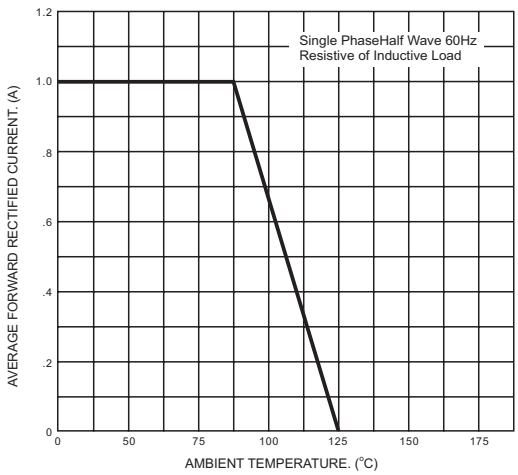


FIG.2- JUNCTION CAPACITANCE

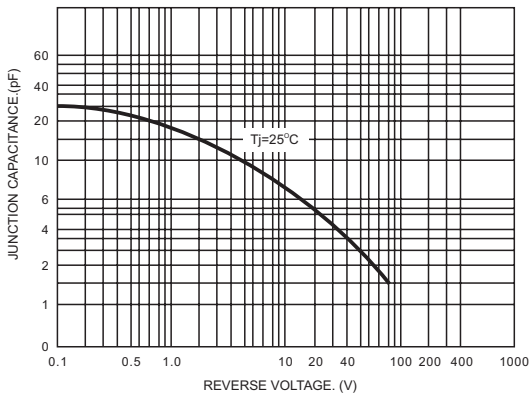


FIG.3- TYPICAL FORWARD CHARACTERISTICS

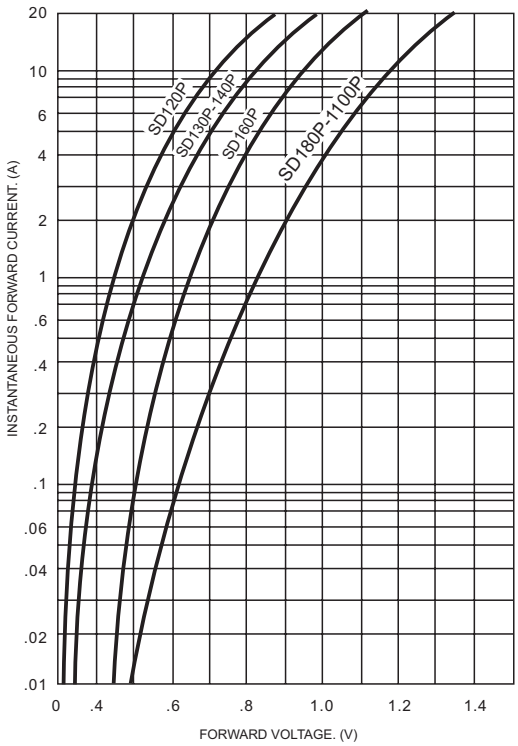


FIG.4- PEAK FORWARD SURGE CURRENT

