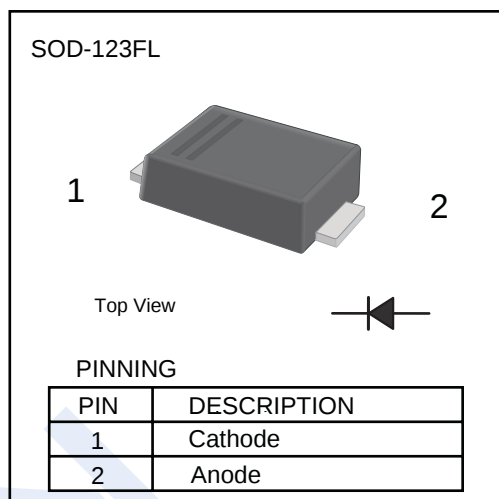


General Purpose Rectifier

DSR1A ~ DSR1M

■ Features

- Reverse Voltage – 50 to 1000 V
- Forward Current – 1 A
- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction



■ Absolute 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%.

Parameter	Symbol	DSR1A	DSR1B	DSR1D	DSR1G	DSR1J	DSR1K	DSR1M	Unit	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum Surge Peak Reverse Voltage	V _{RSM}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000		
Maximum Instantaneous Forward Voltage at 1A	V _F	1.1								A
Averaged Forward Current (Note 1) T _A =65℃	I _{F(AV)}	1								
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) T _L =25 ℃	I _{FSM}	25								μA
Maximum DC Reverse Current T _A =25℃ at Rated DC Blocking Voltage T _A =125℃	I _R	10 50								
Typical Junction Capacitance (Note 2)	C _j	4								pF
Typical Thermal Resistance (Note 3)	R _{thJA}	180								℃/W
Junction Temperature	T _j	150								℃
Storage Temperature	T _{stg}	-55 to 150								

Note 1: Averaged over any 20ms period.

2: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3: PCB mounted on 5.0*5.0mm copper pad area.

■ Marking

NO.	DSR1A	DSR1B	DSR1D	DSR1G	DSR1J	DSR1K	DSR1M
Marking	S1A	S1B	S1D	S1G	S1J	S1K	S1M

General Purpose Rectifier

DSR1A ~ DSR1M

■ Typical Characteristics

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

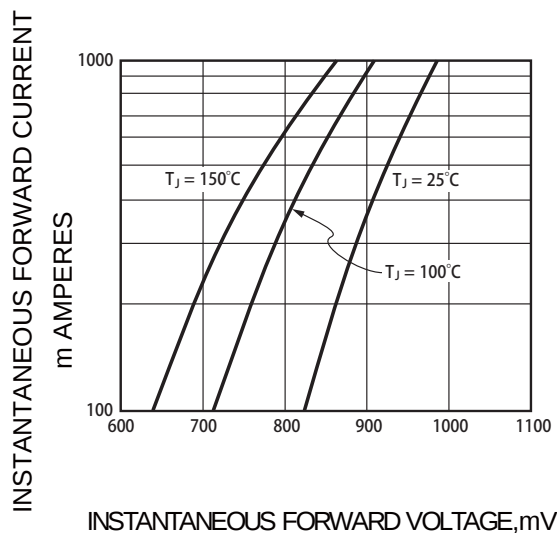


FIG.2 – TYPICAL JUNCTION CAPACITANCE

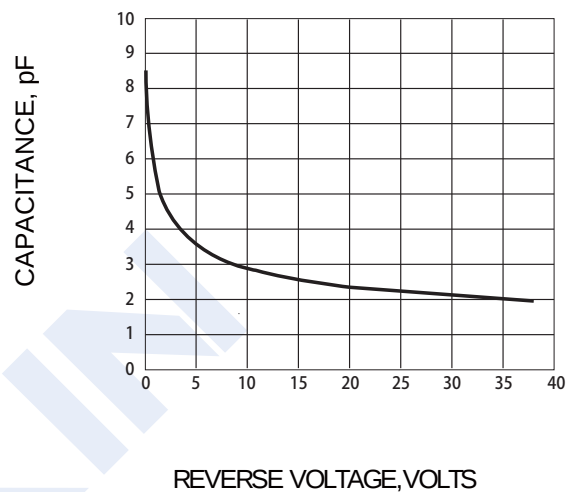


FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

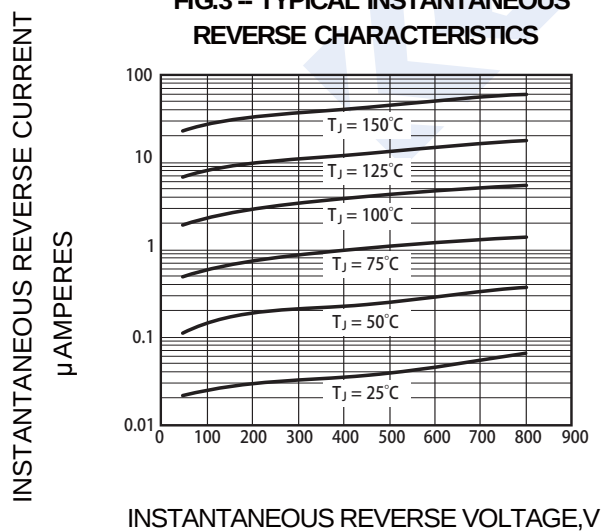
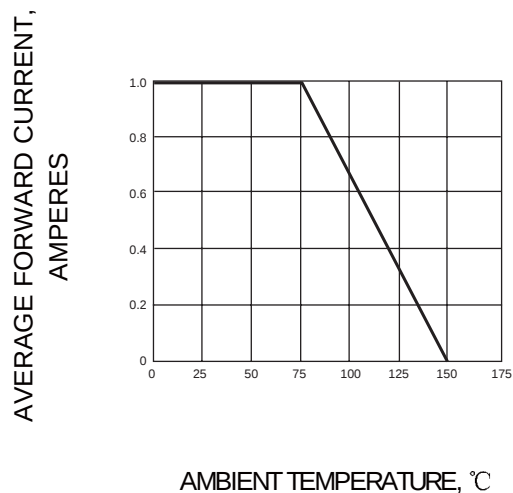


FIG.4 – FORWARD DERATING CURVE



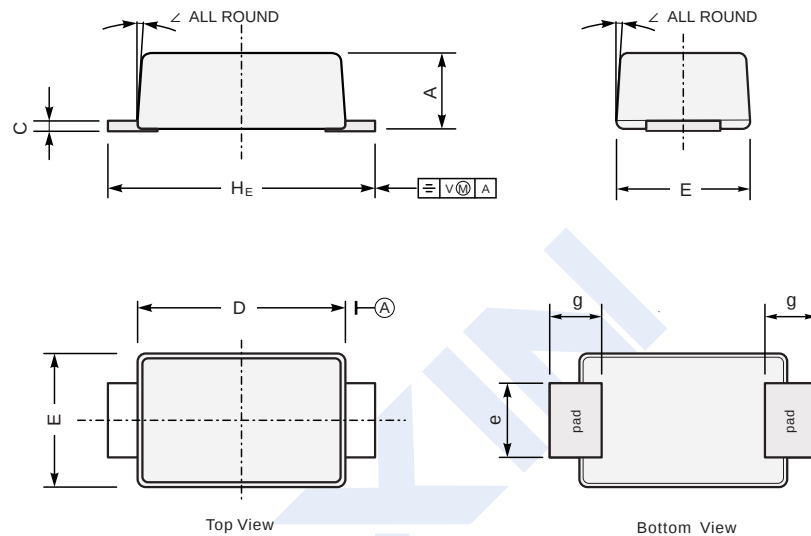
General Purpose Rectifier

DSR1A ~ DSR1M

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT		A	C	D	E	e	g	H _E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

■ The Recommended Mounting Pad Size

