

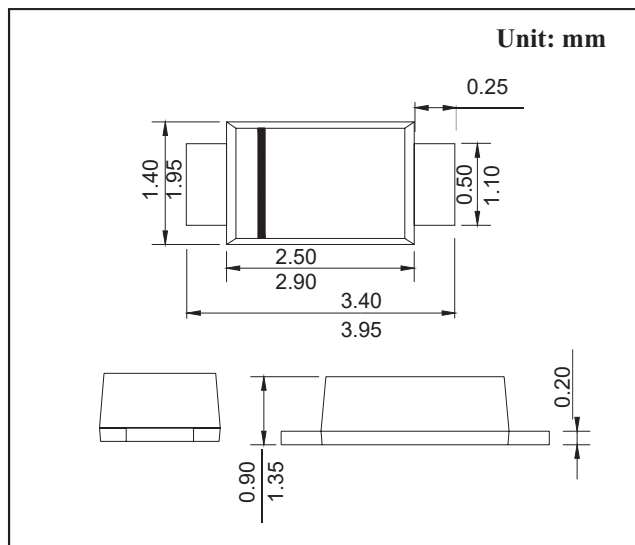
SOD-123FL SCHOTTKY BARRIER DIODE

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SOD-123FL molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbols	US1AW	US1BW	US1DW	US1GW	US1JG	US1KW	US1MW	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 ℃	I _{F(AV)}	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25							A
Maximum Instantaneous Forward Voltage at 1A	V _F	1.0			1.4	1.7			V
Maximum DC Reverse Current Ta = 25 ℃ Rated DC Blocking Voltage Ta =125 ℃	I _R	5 100							μA
Maximum Reverse Recovery Time	t _{rr}	50				75			ns
Typical Thermal Resistance	R _{θJA}	180							℃/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150							℃

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

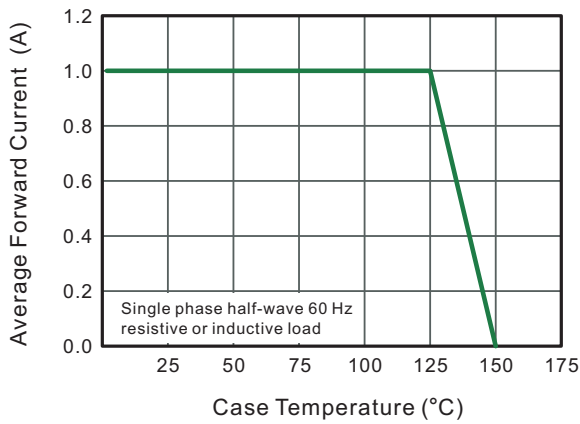


Fig.2 Typical Reverse Characteristics

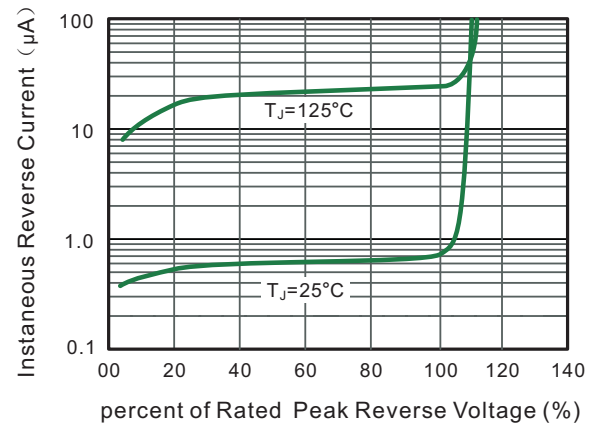


Fig.3 Typical Forward Characteristics

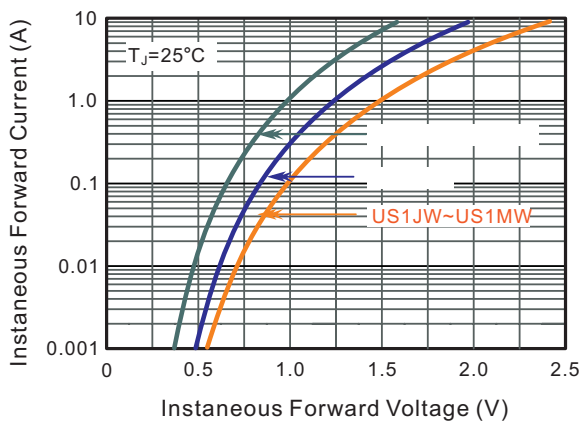


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

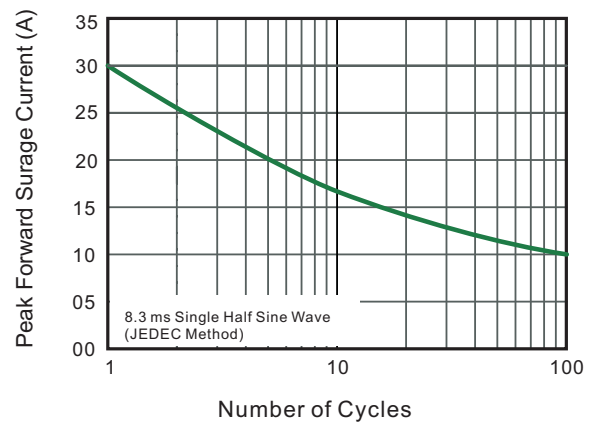


Fig.5- Typical Transient Thermal Impedance

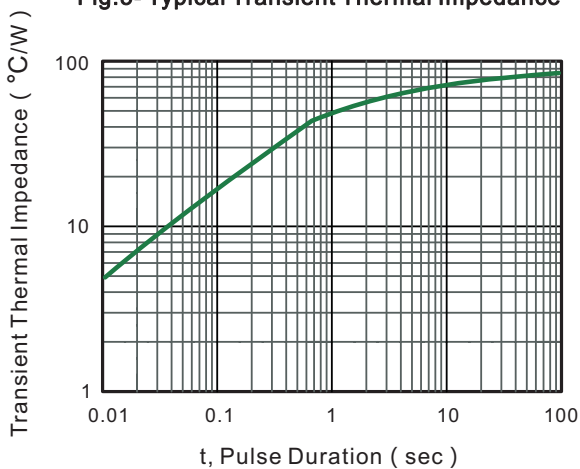


Fig.6 Typical Junction Capacitance

