

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High temperature soldering guaranteed:
260°C / 10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	DSS215	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_{DC}		
RMS Reverse Voltage	V_{RMS}	105	V
Average Rectified Output Current @ $T_A = 90^\circ\text{C}$	I_o	2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50	A
Forward Voltage per element @ $I_F = 2.0\text{A}$	V_{FM}	0.92	V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I_R	0.05	mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		5	
Typical junction capacitance (NOTE 1)	C_J	80	pF
Operating junction temperature range	T_J	-55to+150	°C
Operating and Storage Temperature Range	T_{STG}	-55to+150	°C

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

FIG. 1- FORWARD CURRENT DERATING CURVE

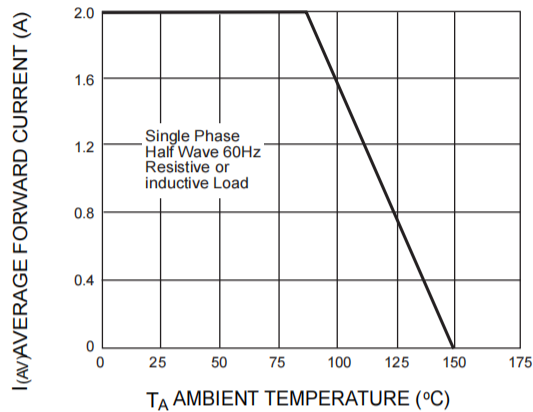


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

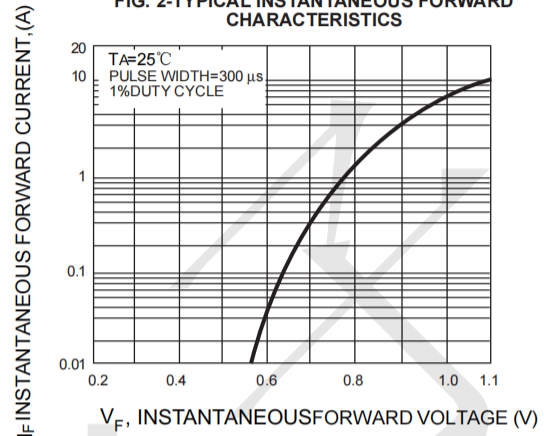


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

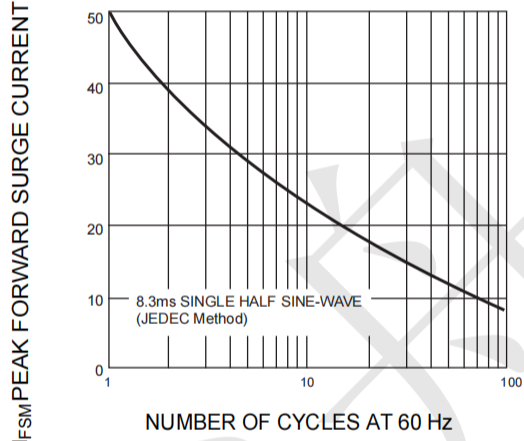


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

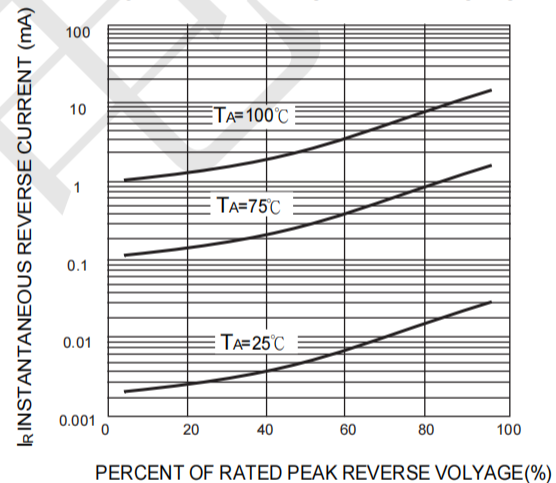
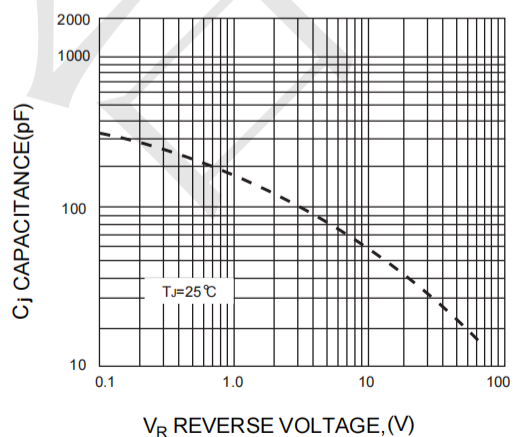
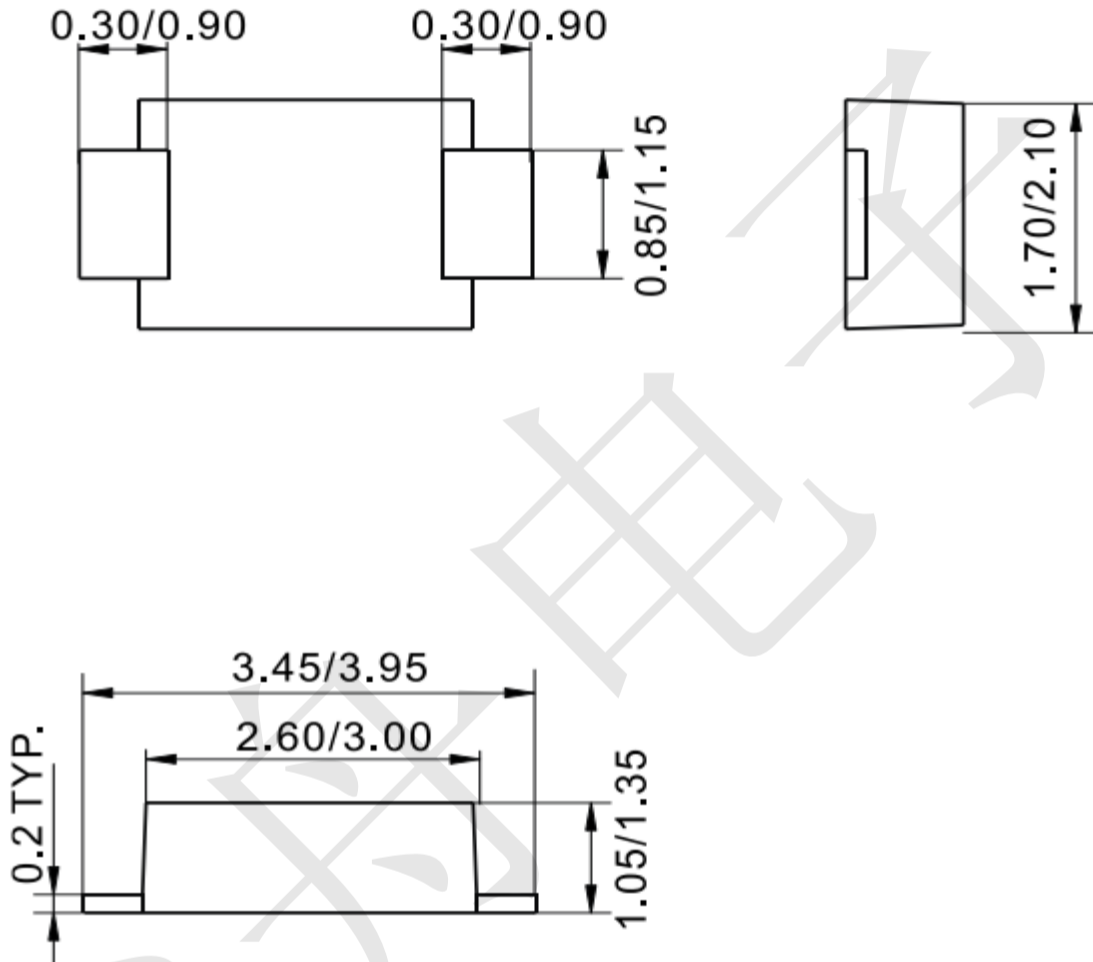


FIG. 5-TYPICAL JUNCTION CAPACITANCE



Package information (Unit: mm)

SOD-123FL



Mounting Pad Layout (Unit: mm)

