TECH PUBLIC
台舟电子

S215FA

SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

WWW.TECHPUBLIC.COM

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℃/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℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	S215FA	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	150	V
RMS Reverse Voltage	V_{RMS}	105	V
Average Rectified Output Current @T_A=90℃	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 @IF=2.0A	V_{FM}	0.92	V
Peak Reverse Current @T_A=25℃ At Rated DC Blocking Voltage @T_A=100℃	I_R	0.05 5	mA
Typical junction capacitance (NOTE 1)	C_J	80	pF
Operating junction temperature range	T_J	-55to+150	℃
Operating and Storage Temperature Range	T_{STG}	-55to+150	℃

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

TECH PUBLIC
台舟电子

S215FA

SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

WWW.TECHPUBLIC.COM

FIG. 1- FORWARD CURRENT DERATING CURVE

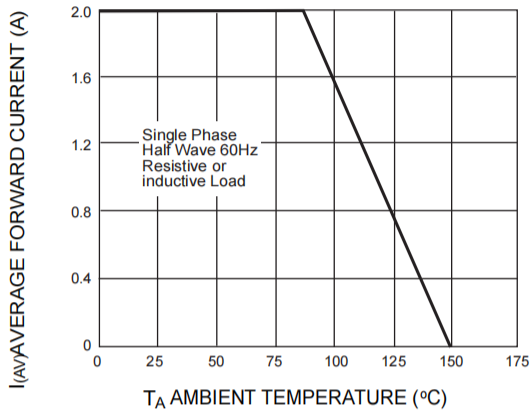


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

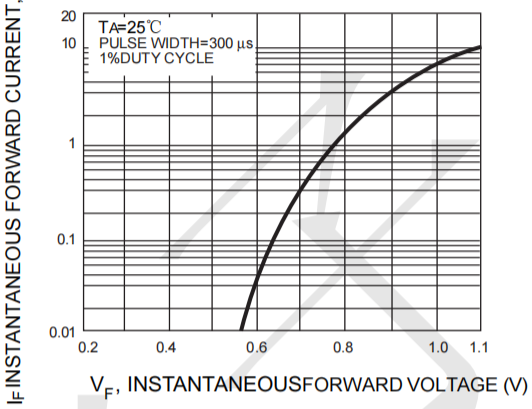


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

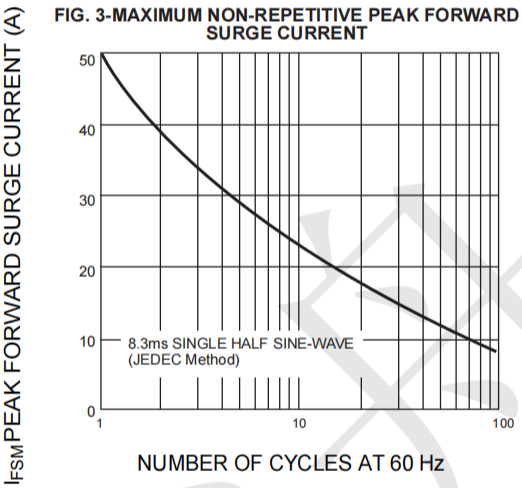


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

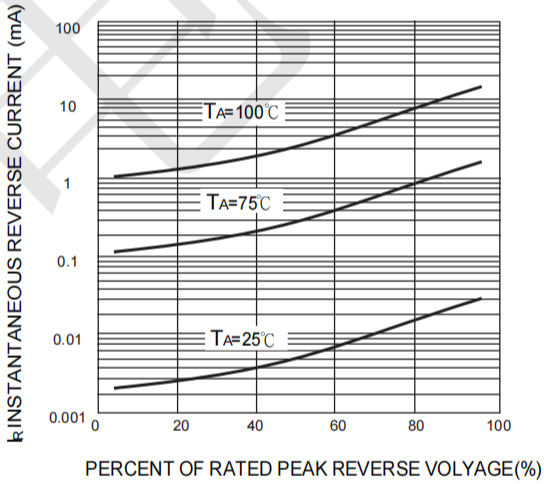
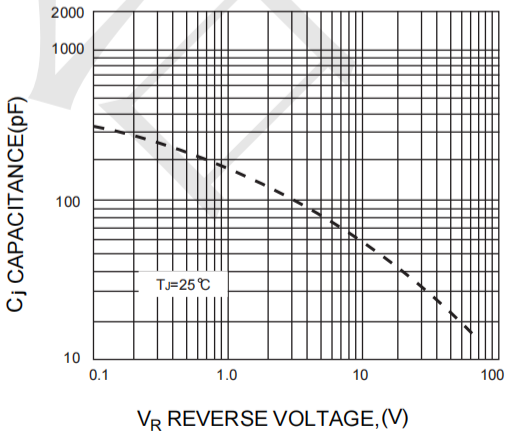
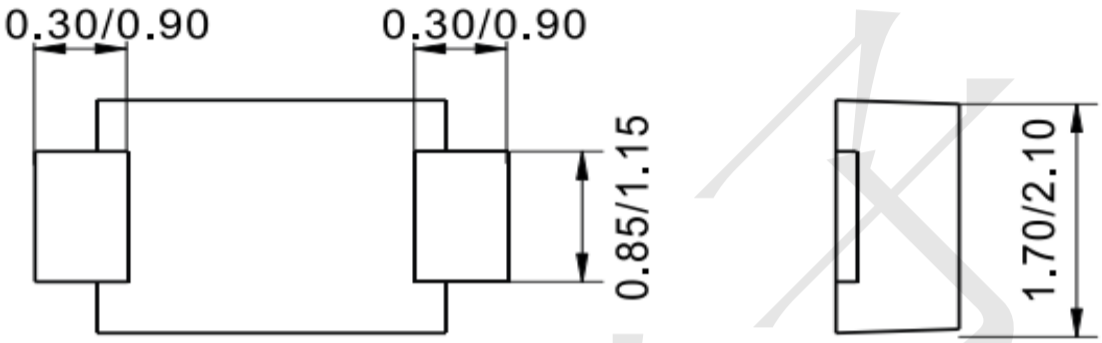


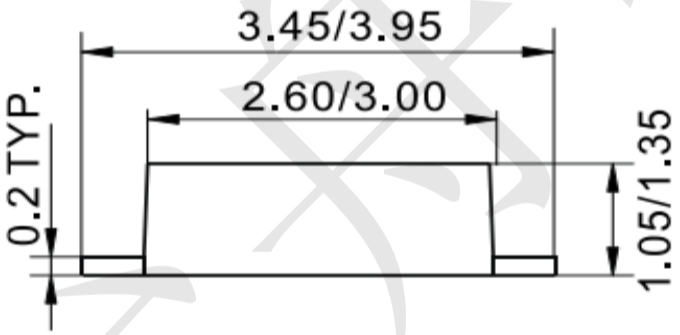
FIG. 5-TYPICAL JUNCTION CAPACITANCE



Package information (Unit: mm)

SOD-123FL





Mounting Pad Layout (Unit: mm)

