SS22FL THRU SS220FL

Surface Mount Schottky Barrier Rectifiers

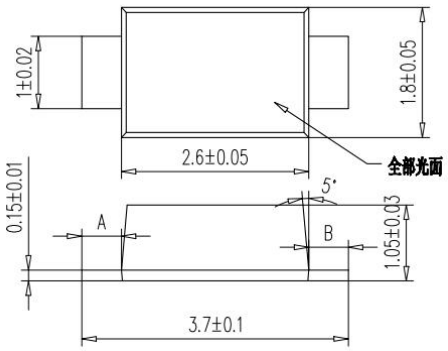
Datasheet

Features

- Plastic package Underwirters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters,free wheeling and polarity protection applications.
- High temperature soldring guaranteed:260℃/10 seconds at terminals

Schottky rectifier

SOD123FL



Dimiensions in inches and (milimeters)

Mechanical Data

- Terminal: Plated leads, solderable per MIL-STD-750,Method 2026
- Case: molded plastic SOD123FL
- Polarity: Color band denotes postives end(cathode)
- Standard packaging:12mm tape(EIA-481)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive

Type Number	SYMBOL	SS22FL	SS23FL	SS24FL	SS25FL	SS26FL	SS28FL	SS210FL	SS212FL	SS215FL	SS220FL	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	120	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	84	105	140	V
Maximum DC blocking Voltage	V_{DC}	20	30	40	50	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	2										A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50										A
Maximum Forward Voltage at 1.5A DC	V_F	0.55			0.70		0.85			0.95		V
Maximum DC Reverse Current @T_A =25°C	I_R	0.5					0.3					mA
At rated DC blocking voltage @T_A=100°C		5					3					
Typical Junction Capacitance (Note1)	C_j	220			80							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	85										°C /W
Storage Temperature	T_{STG}	-55 to +150										°C
Operation Junction Temperature	T_J	-55 to +125										°C

load. For capacitive load, derate current by 20%.

Note: 1. Pulse Test with PW=300μsec,2% Duty Cycle.

2. Mounted on P.C.Board with 5.0mm2(.013mm thick)copper pad areas.

Fig.1 Forward Current Derating Curve

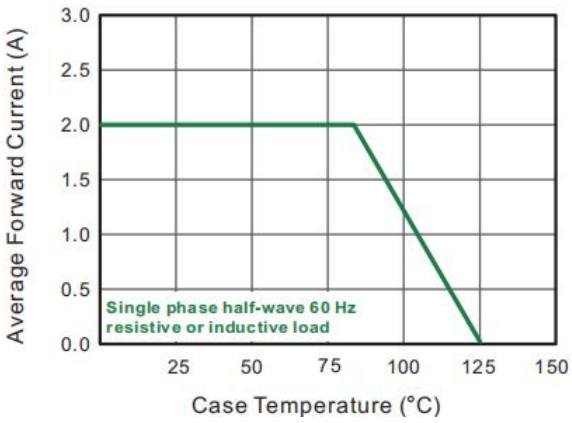


Fig.2 Typical Reverse Characteristics

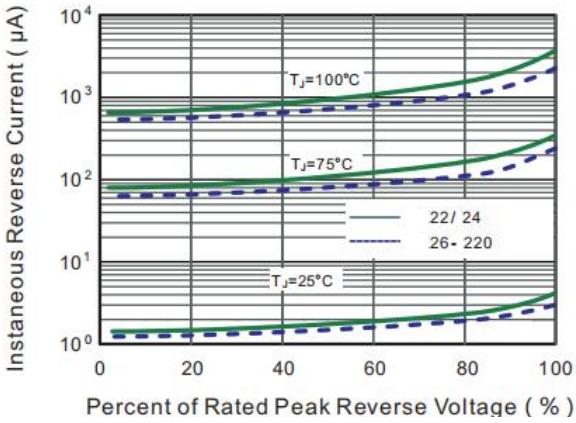


Fig.3 Typical Forward Characteristic

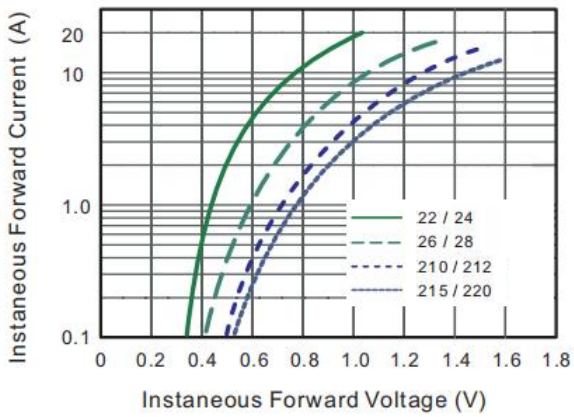


Fig.4 Typical Junction Capacitance

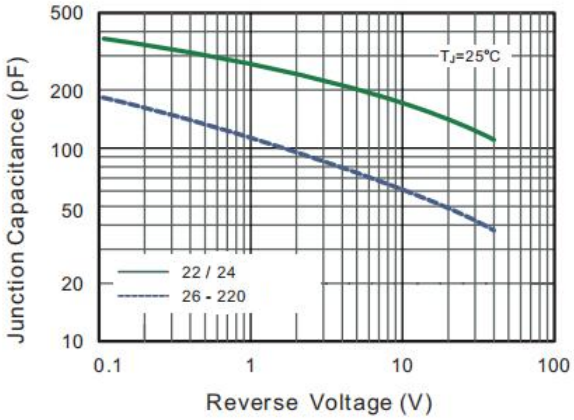


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

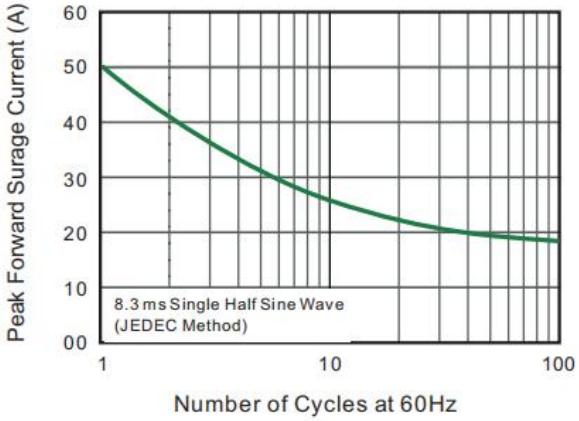


Fig.6- Typical Transient Thermal Impedance