TAYCHIPST

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

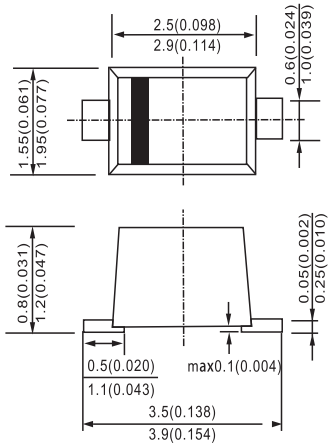
SS2020FL THRU SS20100FL

20V -100V 2.0A

FEATURES

- Plastic package has Underwriters Laboratory
- Flammability classification 94V-0 Utilizing Fame
- Retardant Epoxy Molding Compound
- For surface mount applications
- Low leakage current.

SOD-123FL



Dimensions in millimeters

Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristics	Symbol	SS2020FL	SS2030FL	SS2040FL	SS2050FL	SS2060FL	SS2080FL	SS20100FL	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Continuous Reverse Voltage	V_R	20	30	40	50	60	80	100	V
Maximum Instantaneous @TA=25 C	VF	0.5			0.7		0.85		V
Maximum Average Forward (Fig.1)	I_O	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50							A
Maximum DC Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	IR	0.5 10							mA
Typical Thermal Resistance	$R_{\theta JA}$	85(TYP)							°C/W
Typical Junction Capacitance	C_J	160(TYP)							pF
Operating Temperature Range	T_J	-55 to+125			-55 to+150				°C
Storage Temperature Range	T_{STG}	-55 to+150							°C

RATINGS AND CHARACTERISTIC CURVES SS2020FL THRU SS20100FL

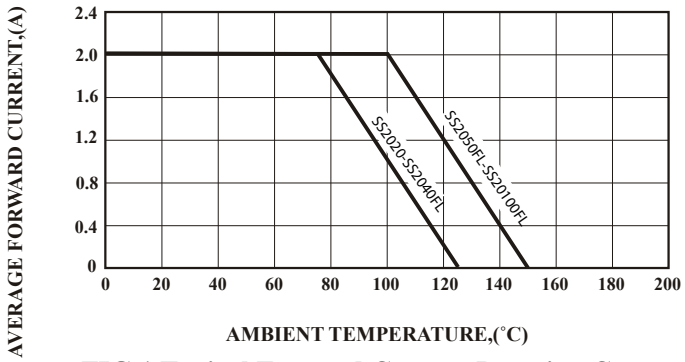


FIG.1 Typical Forward Current Derating Curve

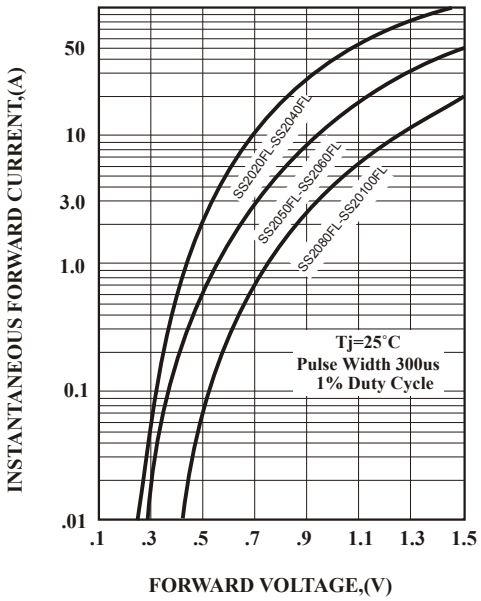


FIG.2 Typical Forward Characteristics

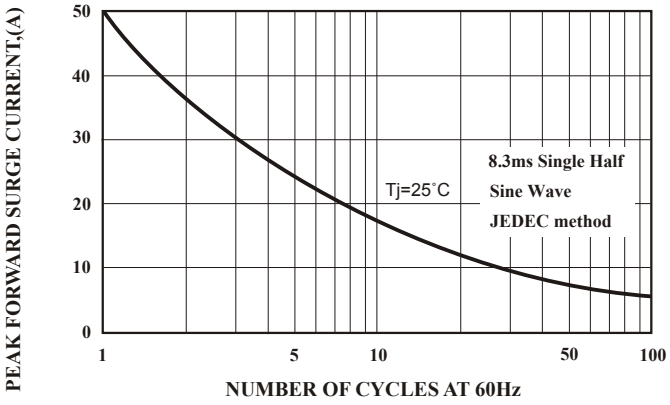


FIG.3 Maximum Non-Repetitive Forward Surge Current

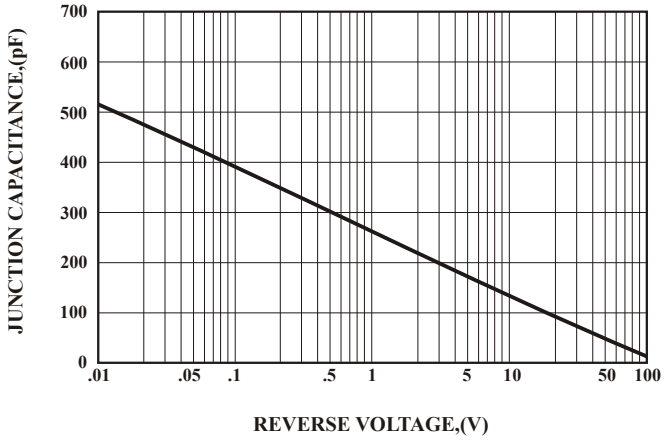


FIG.4 Typical Junction Capacitance

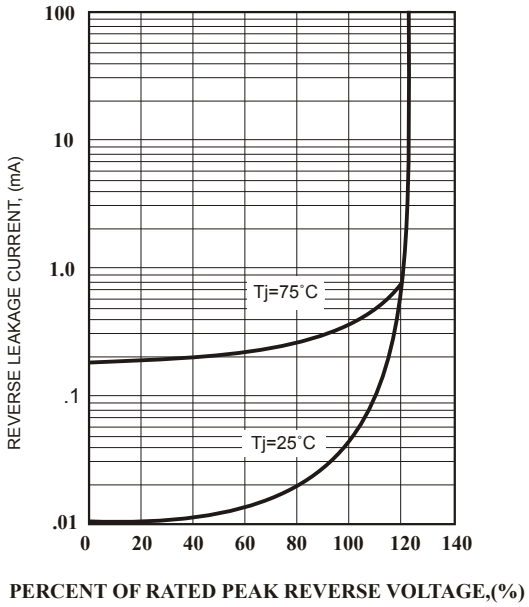


FIG.5 Typcial Reverse Characteristics