



# SS1020FL~SS10100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 100 Volts    **CURRENT** 1.0 Amperes

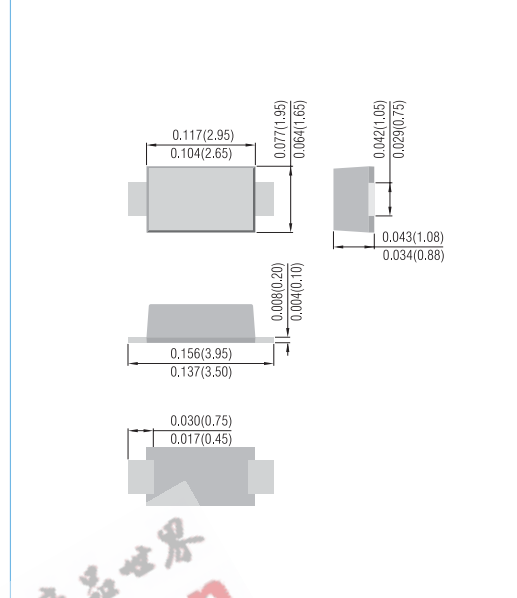
**SOD-123FL/DO-219AB**    Unit: inch ( mm )

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

### MECHANICAL DATA

- Case: JEDEC DO-219AB, Molded plastic over passivated junction.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0168 gram, Standard Packaging : 8mm tape(EIA-481)
- Marking codes : SS1020FL : G2  
SS1030FL : G3  
SS1040FL : G4  
SS1060FL : G6  
SS10100FL : G10



### ABSOLUTE RATINGS

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Reverse Voltage	$V_R$	20	30	40	60	100	V
Peak Reverse Voltage	$V_{RRM}$	20	30	40	60	100	V
Average Rectified current at $T_L=75^{\circ}C$	$I_{F(AV)}$	1.0					A
Non-repetitive Peak Forward Surge Current at $t=8.3ms$	$I_{FSM}$	40					A
Junction Temperature	$T_J$	125					$^{\circ}C$
Storage Temperature	$T_{STG}$	-50 to +150					$^{\circ}C$

### ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS	
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	180						$^{\circ}C/W$
Minimum Reverse Breakdown Voltage at $I_R = 500\mu A$	$V_R$	20	30	40	60	100	V	
Maximum Forward Voltage	$V_F$	at $I_F=1.0A$ at $I_F=3.0A$	0.45 0.75	0.55 -	0.55 -	0.70 -	0.85 -	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	500						$\mu A$
Typical Junction Capacitance Rating	$C_J$	60	60	60	50	40	pF	

Note.1 Mounted with minimum recommended pad size, PC Board FR4.  
2.  $T_J=25^{\circ}C$  unless otherwise specified.  
3. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.



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## Rating and Characteristic Curves

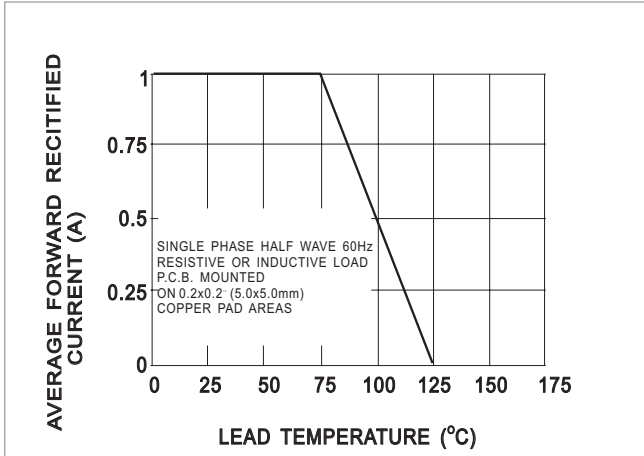


FIG. 1-FORWARD CURRENT DERATING CURVE

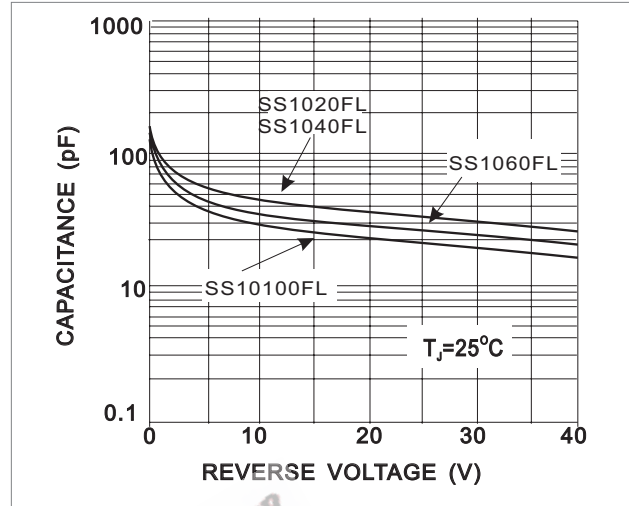


FIG. 2-TYPICAL JUNCTION RATINGS

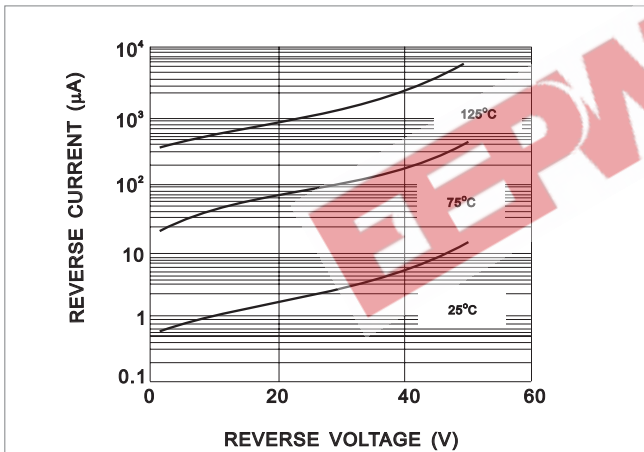


FIG. 3-TYPICAL REVERSE CHARACTERISTIC

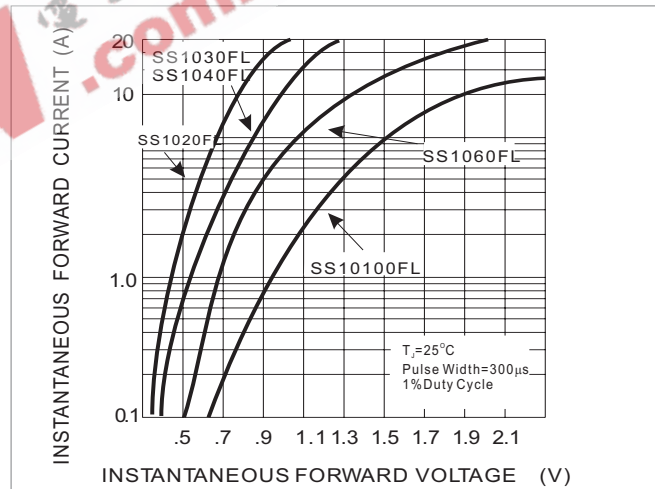
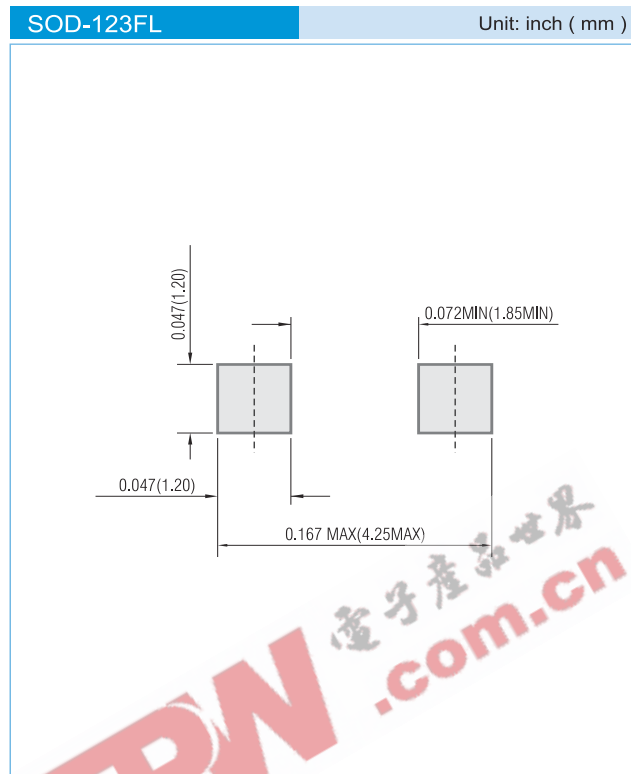


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



## SS1020FL~SS10100FL

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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