

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**

SS12FA--SS110FA

FEATURES

- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance



MECHANICAL DATA

- Case: SMAFL molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	SS12FA	SS13FA	SS14FA	SS15FA	SS16FA	SS18FA	SS19FA	SS110FA	UNITS
Device marking code		S12	S13	S14	S15	S16	S18	S19	S1AF	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V _{RWS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current at T _L =90°C	I _{F(AV)}	1.0								A
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	35								A

Thermal Characteristics

Characteristic	Symbol	SS12FA	SS13FA	SS14FA	SS15FA	SS16FA	SS18FA	SS19FA	SS110FA	UNITS	
Operating temperature range	T _J	-55 ---- +125					-55 ---- +150				°C
Storage temperature range	T _{STG}	-55 ---- +150									°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

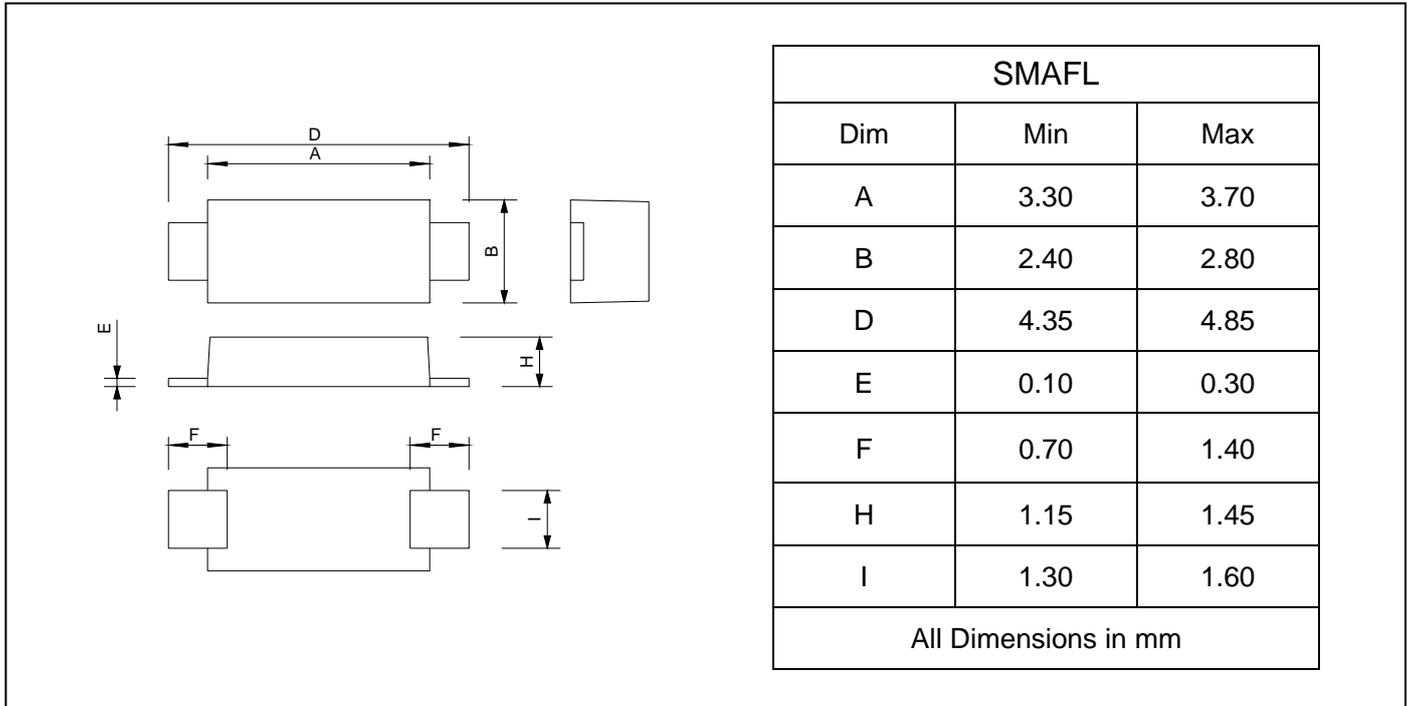
Characteristic	Symbol	SS12FA	SS13FA	SS14FA	SS15FA	SS16FA	SS18FA	SS19FA	SS110FA	UNITS	
Maximum instantaneous forward voltage at I _{FM} =1.0A	V _F	0.50			0.75		0.85			V	
Maximum DC reverse current T _J =25°C at rated DC blocking voltage T _J =125°C	I _R	0.2					0.5				m A
		6.0			5.0						



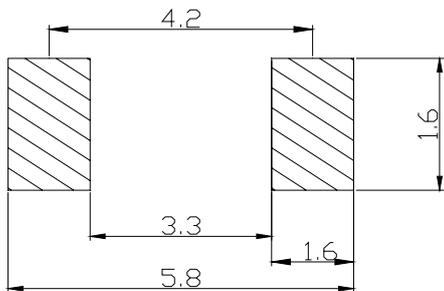
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SS12FA--SS110FA	SMAFL	10000/Tape&Reel



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FIG.1 – FORWARD DERATING CURVE

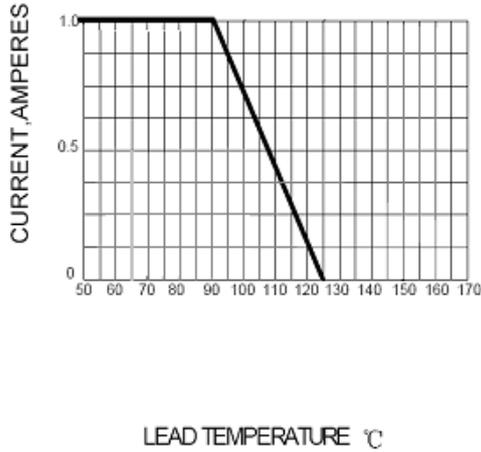


FIG.2- PEAK FORWARD SURGE CURRENT

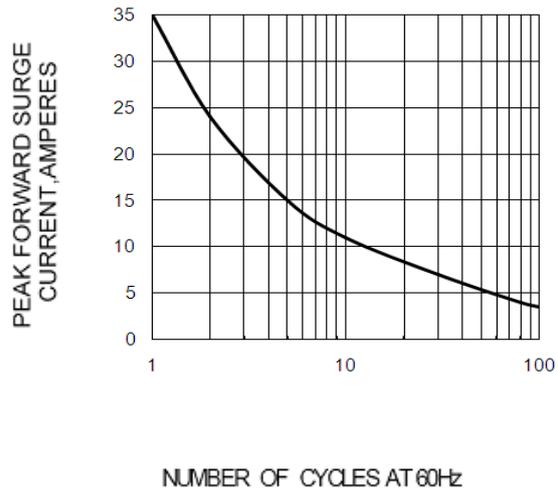


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

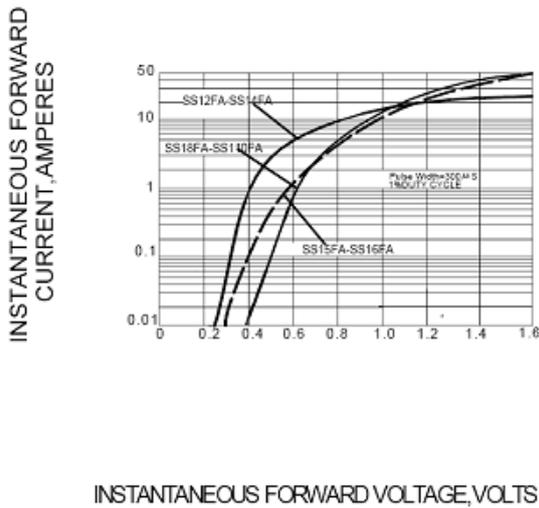


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

