

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS32FA--SS310FA

FEATURES

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



MECHANICAL DATA

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

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

Characteristic	Symbol	SS32 FA	SS33 FA	SS34 FA	SS345 FA	SS35 FA	SS36 FA	SS38 FA	SS39 FA	SS310 FA	UNITS
Device marking code		S32	S33	S34	S345	S35	S36	S38	S39	S3AF	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	45	50	60	80	90	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	31.5	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	45	50	60	80	90	100	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	3.0									A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	100									A

Thermal Characteristics

Characteristic	Symbol	SS32 FA	SS33 FA	SS34 FA	SS345 FA	SS35 FA	SS36 FA	SS38 FA	SS39 FA	SS310 FA	UNITS
Operating temperature range	T _J	-55----+125						-55----+150			°C
Storage temperature range	T _{STG}	-55----+150									°C

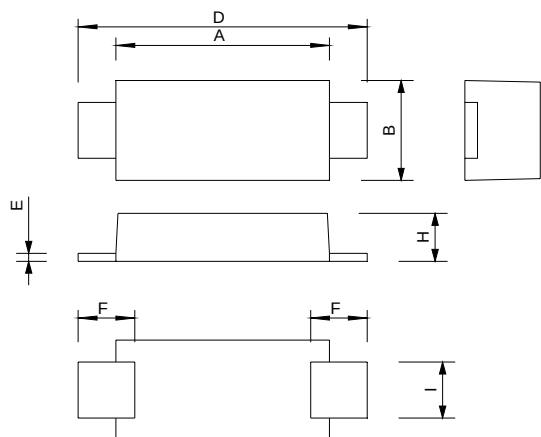
Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	SS32 FA	SS33 FA	SS34 FA	SS345 FA	SS35 FA	SS36 FA	SS38 FA	SS39 FA	SS310 FA	UNITS
Maximum instantaneous forward voltage at I _{FM} =3.0A	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	0.5									m A
		20				10					

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**

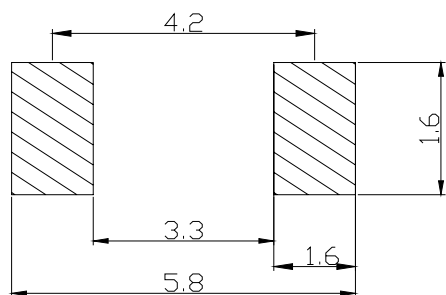
SS32FA--SS310FA

PACKAGE OUTLINE DIMENSIONS



SMAFL		
Dim	Min	Max
A	3.30	3.70
B	2.40	2.80
D	4.35	4.85
E	0.10	0.30
F	0.70	1.40
H	1.15	1.45
I	1.30	1.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SS32FA--SS310FA	SMAFL	10000/Tape&Reel

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FIG.1 – FORWARD DERATING CURVE

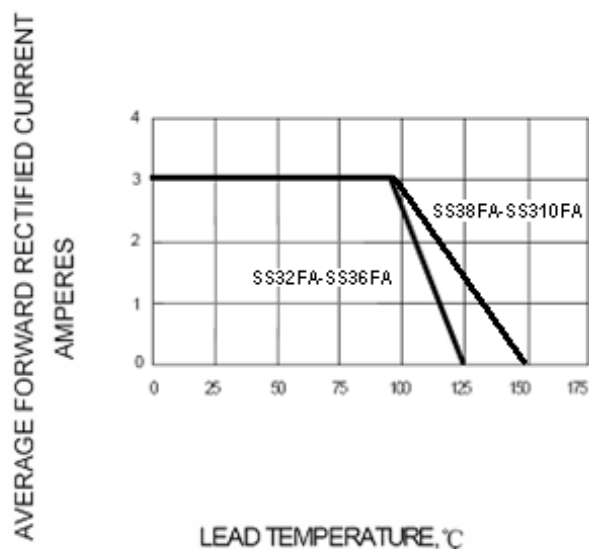


FIG.2 – PEAK FORWARD SURGE CURRENT

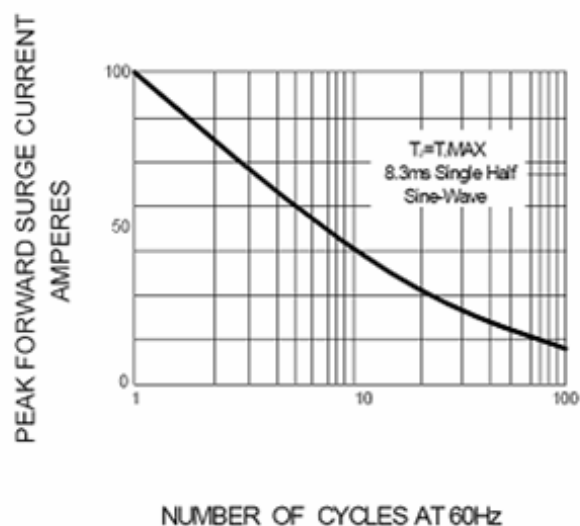


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

