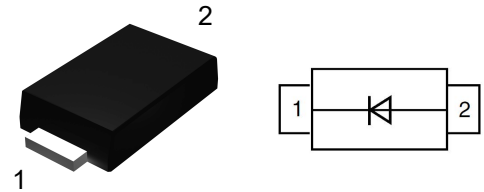


## Surface Mount Schottky Rectifier Diode in SMAF

### Features

- Low forward voltage drop
- Low leakage current
- Unidirectional configurations
- Low power loss, high efficiency



### Mechanical Data

- **Case:** SMAF (plastic package).  
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

### Applications

- For uses in low voltage, high frequency inverters, free wheeling and polarity protection applications.

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	SS32AF	SS34AF	SS36AF	SS310AF	SS315AF	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	100	150	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	70	105	V
Maximum DC blocking voltage	$V_{DC}$	20	40	60	100	150	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	$I_{FSM}$	80					A
Operating junction and storage temperature range	$T_J, T_{STG}$	- 55 to + 150					°C

### Electrical Characteristics

( $T_A = 25\text{ °C}$  unless otherwise specified)

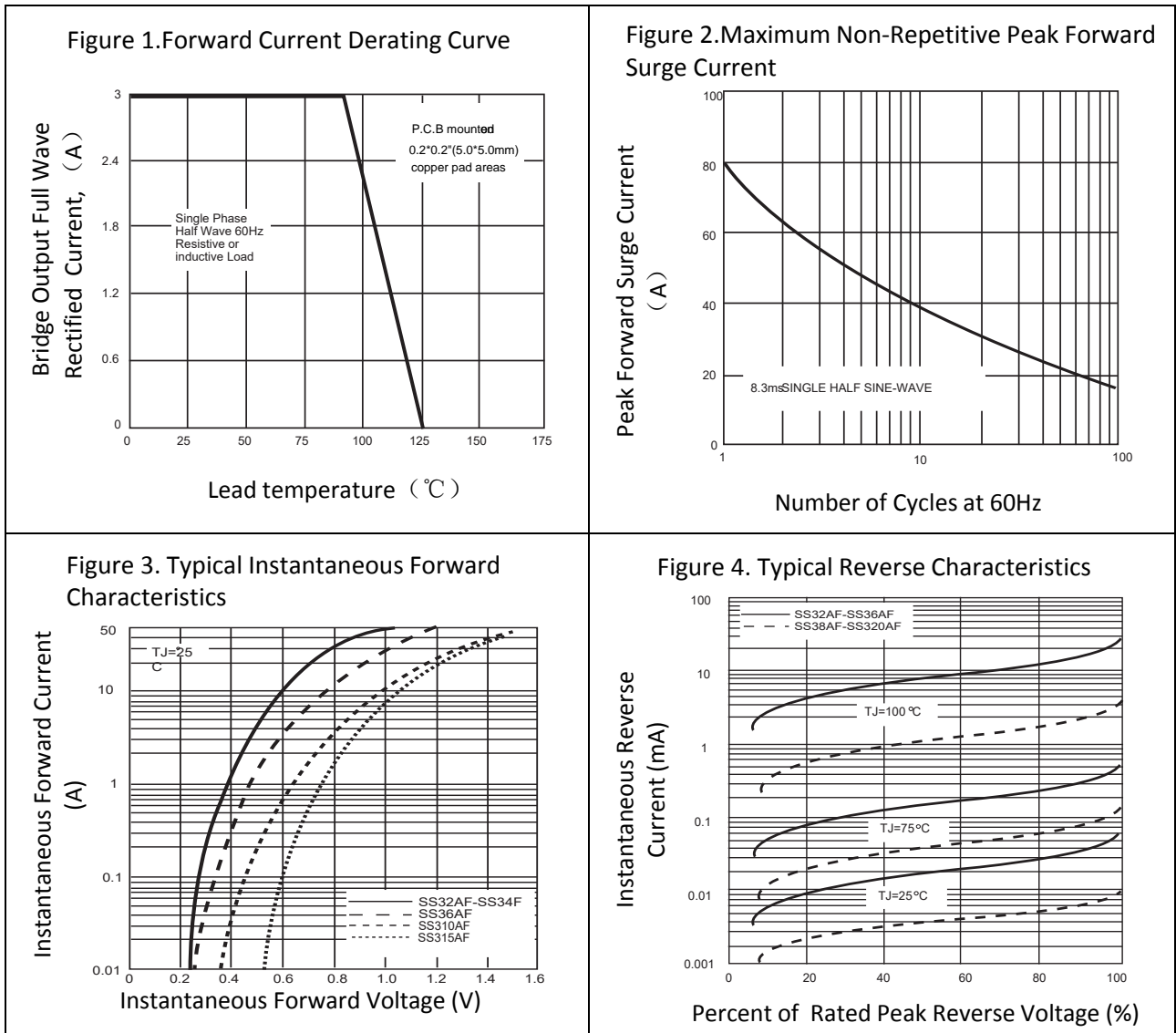
Parameter	Test Conditions	Symbol	SS32AF	SS34AF	SS36AF	SS310AF	SS315AF	Unit
Maximum instantaneous forward voltage	$I_F=3A, T_A=25\text{ °C}$	$V_F$	0.55		0.70	0.85	0.95	V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25\text{ °C}$	$I_R$	0.5		0.05			mA
	$T_A=125\text{ °C}$		50		10			
Typical junction capacitance	4.0 V, 1 MHz	$C_J$	110			80		pF

### Thermal Characteristics

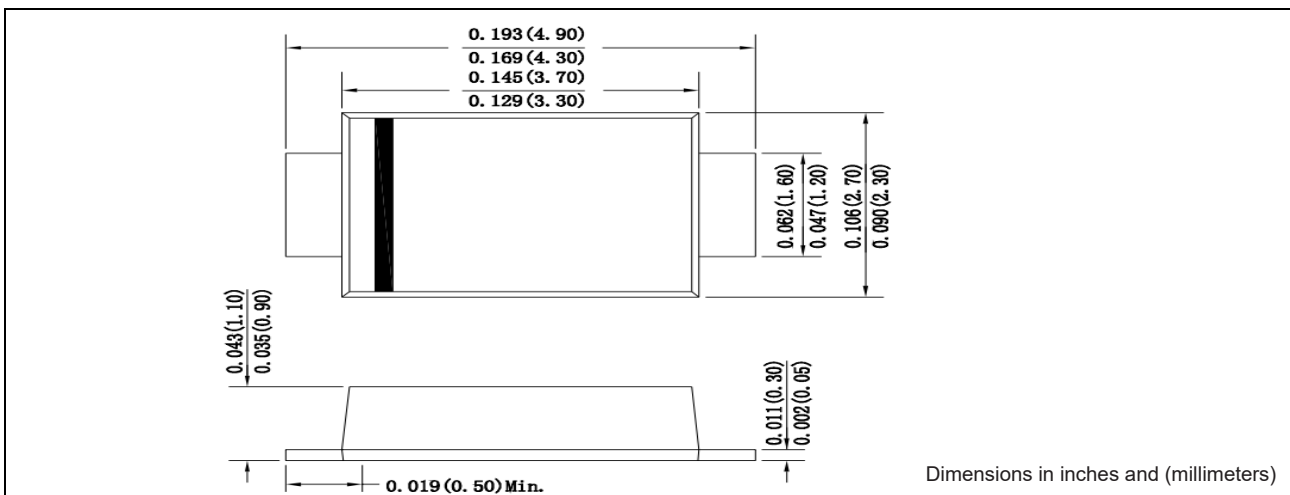
Parameter	Symbol	SS32AF	SS34AF	SS36AF	SS310AF	SS315AF	Unit
Typical thermal resistance <sup>(1)</sup>	$R_{\theta JA}$	80					°C/W
	$R_{\theta JC}$	40					
	$R_{\theta JI}$	18					

Note1: Thermal resistance from junction to lead, mounted on PCB with 5.0×5.0mm copper pads

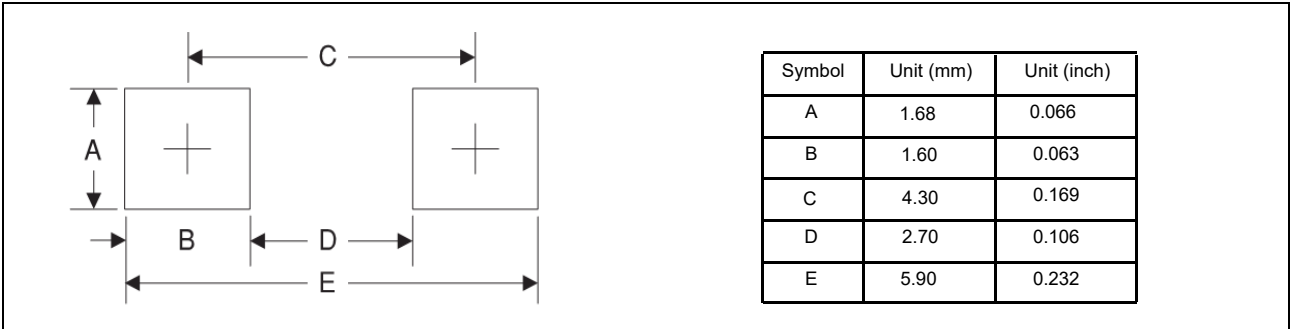
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



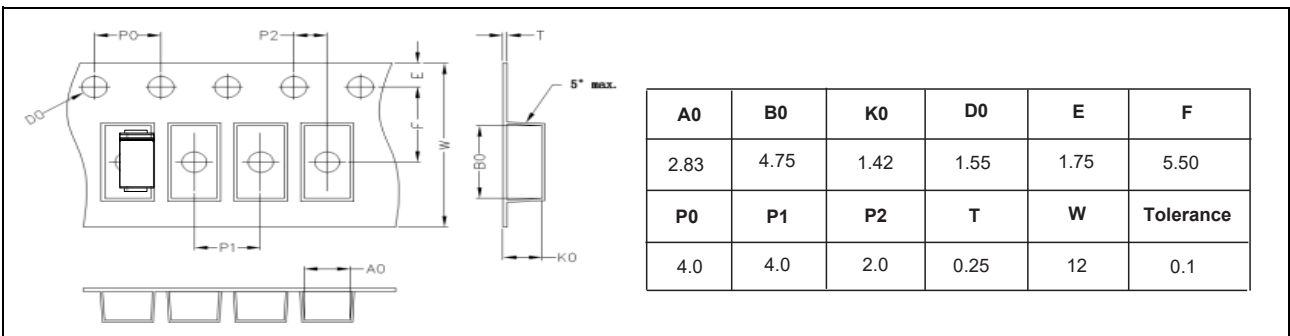
**Package Dimensions**



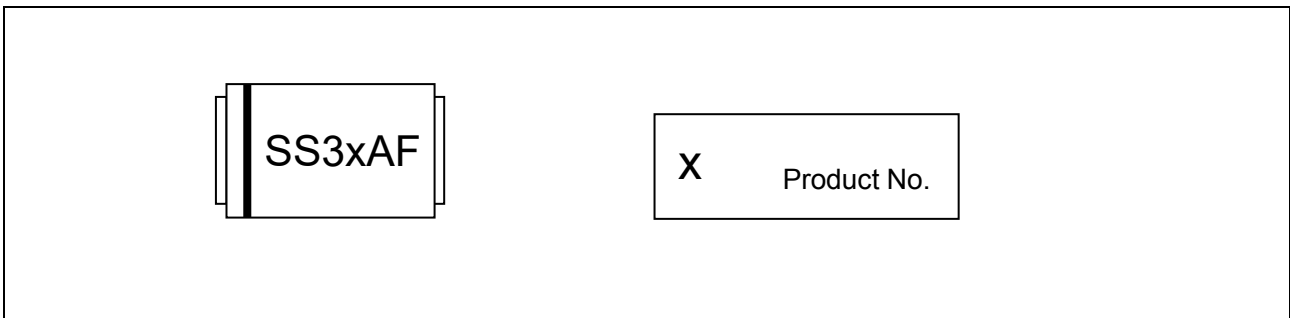
**PAD Dimensions**



**Packing Information**



**Marking**



**Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
SS32AF thru SS310AF	SMAF	Tape and reel	3000pcs / reel	EIA STD RS-481

**Revision history**

Date	Revision	Changes
23-May-2020	1.0	Initial release

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