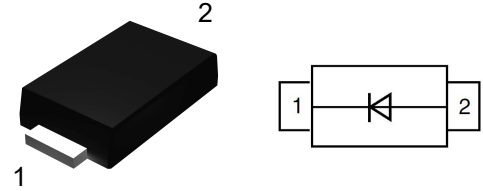


Surface Mount Schottky Rectifier Diode in SMAF

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)

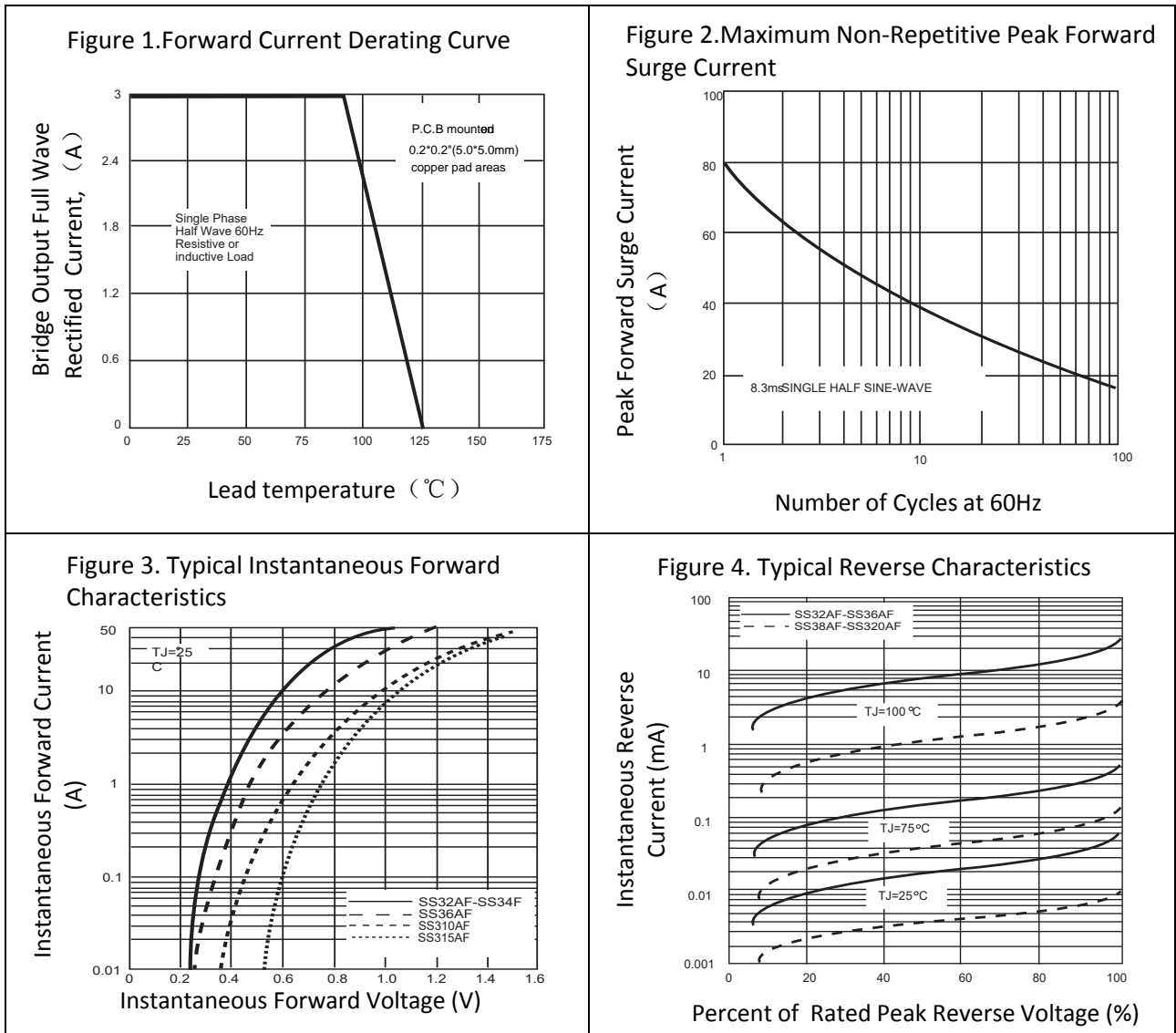
Parameter	Test Conditions	Symbol	SS32AF	SS34AF	SS36AF	SS310AF	SS315AF	Unit
Maximum instantaneous forward voltage	$I_F=3A, T_A=25\text{ °C}$	V_F	0.55		0.70	0.85	0.95	V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25\text{ °C}$	I_R	0.5		0.05			mA
	$T_A=125\text{ °C}$		50		10			
Typical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

Thermal Characteristics

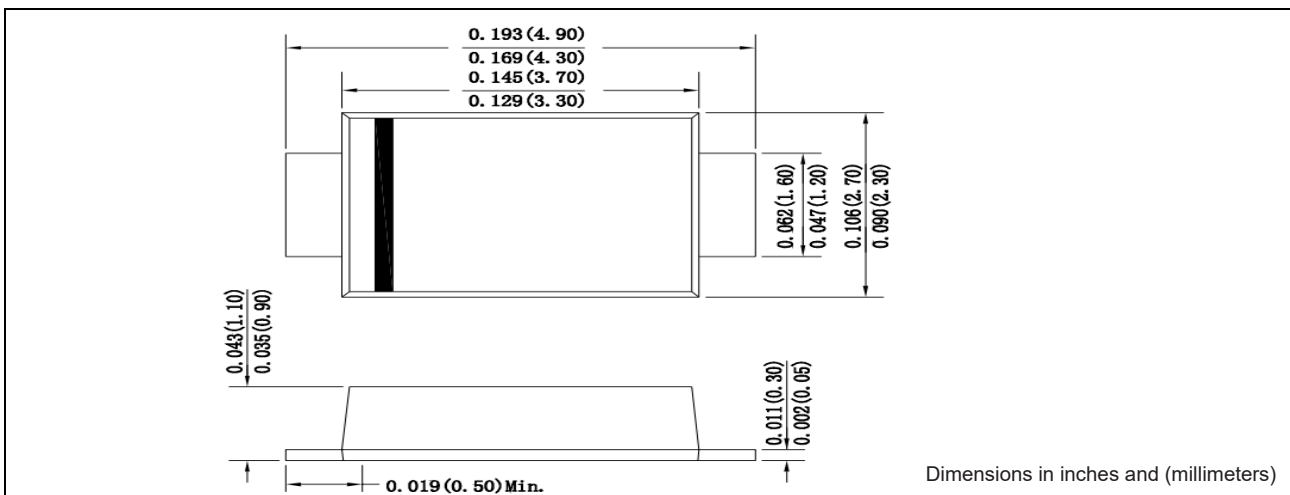
Parameter	Symbol	SS32AF	SS34AF	SS36AF	SS310AF	SS315AF	Unit
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$	80					°C/W
	$R_{\theta JC}$	40					
	$R_{\theta JI}$	18					

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

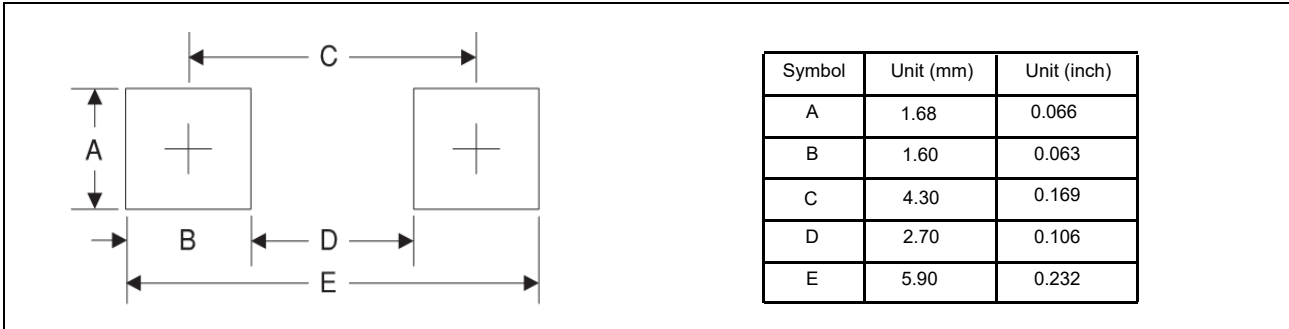
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



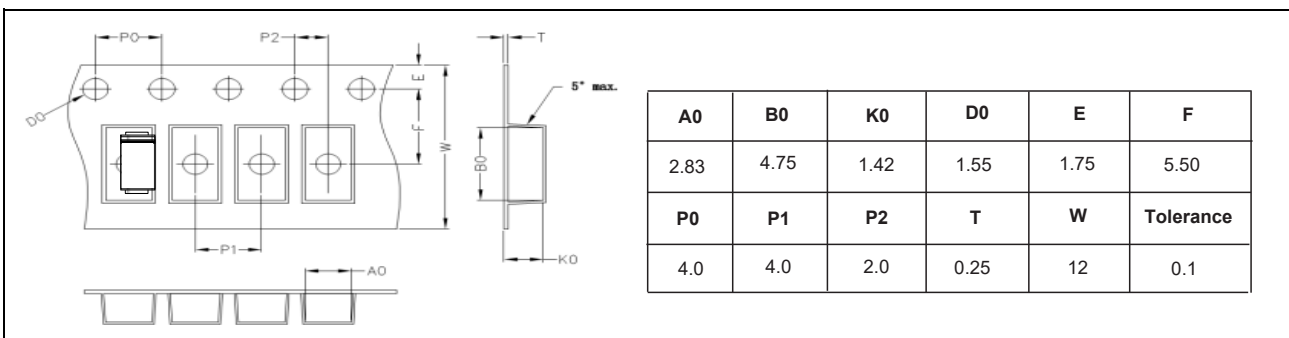
Package Dimensions



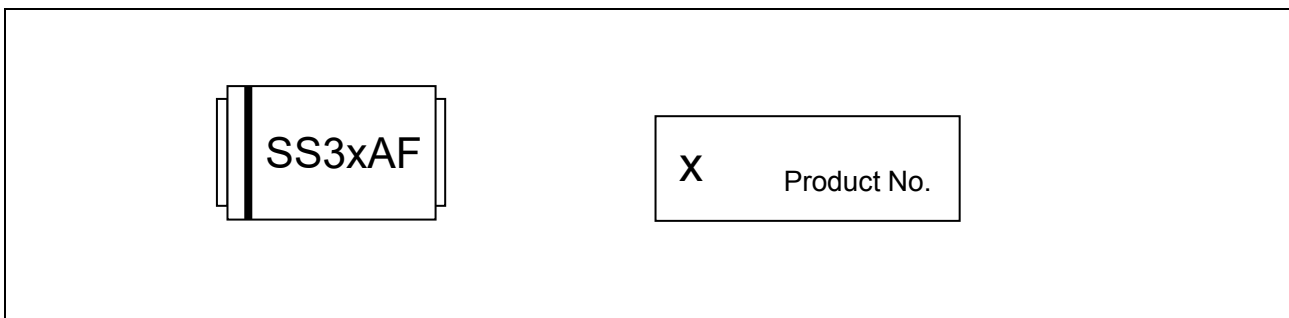
PAD Dimensions



Packing Information



Marking



Ordering information

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

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release
25-Jan.-2019	2.0	Height max. limit on 1.1mm(0.043 inch)
4-Sep.-2019	2.1	Update PAD Dimensions
6-Sep.-2019	3.0	Update Typical Reverse Characteristics
1-Nov.-2019	3.1	Add Marking

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