

Features

- Low power loss, high efficiency
- For surface mounted applications
- High forward surge current capability

SMAF



1.Cathode  2.Anode

Marking Code:

SS12F-TN : SS12
 SS14F-TN : SS14
 SS16F-TN : SS16
 SS18F-TN : SS18
 SS110F-TN: SS110
 SS112F-TN : SS112
 SS115F-TN : SS115
 SS120F-TN : SS120

Absolute Maximum Ratings and Electrical Characteristics

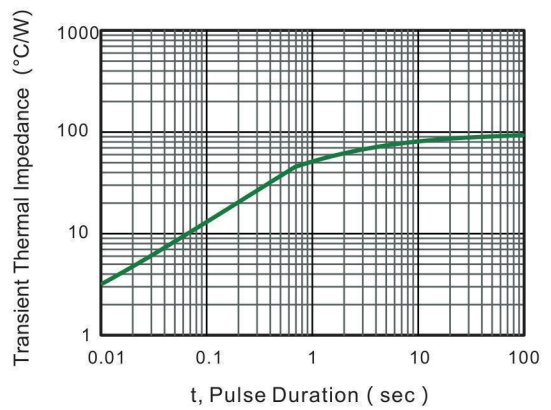
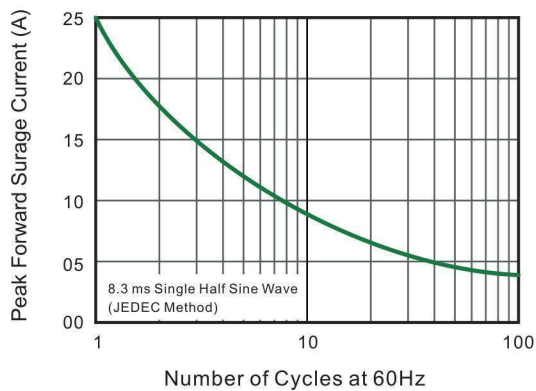
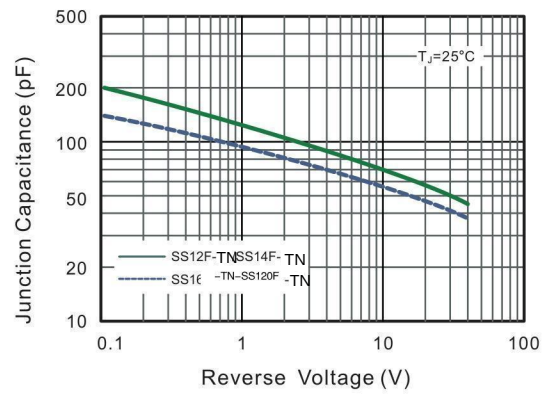
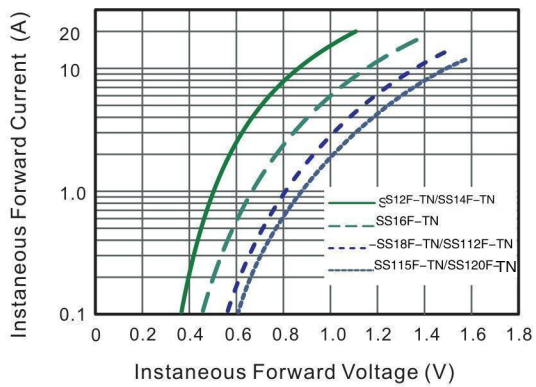
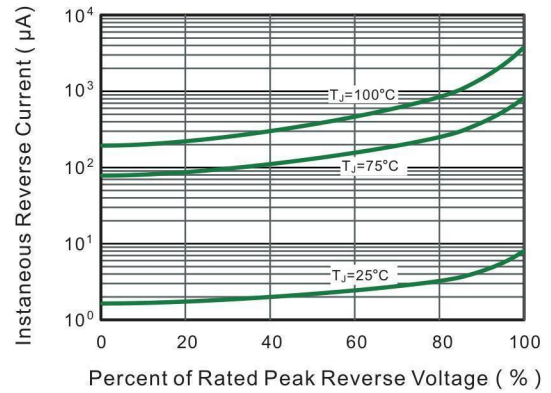
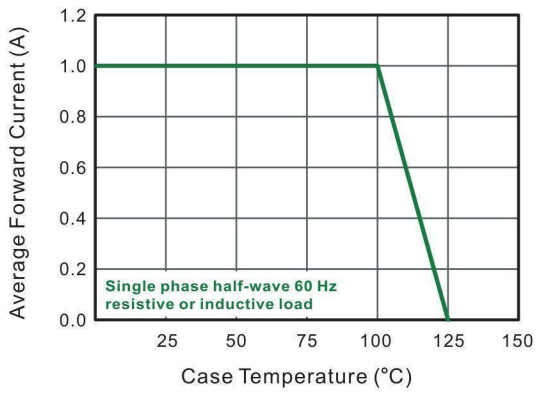
Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	SS12F-TN	SS14F-TN	SS16F-TN	SS18F-TN	SS110F-TN	SS112F-TN	SS115F-TN	SS120F-TN	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50								A
Maximum Instantaneous Forward Voltage at 1 A	V _F	0.55		0.70	0.85			0.90		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25 °C T _A = 100 °C	I _R	0.3 10			0.2 5			0.1 2		mA
Typical Junction Capacitance ^{Note1}	C _J	110		80						pF
Typical Thermal Resistance ^{Note2}	R _{θJA}	95								°C/W
Operating Junction Temperature Range	T _J	-55 to +125								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Note:

1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

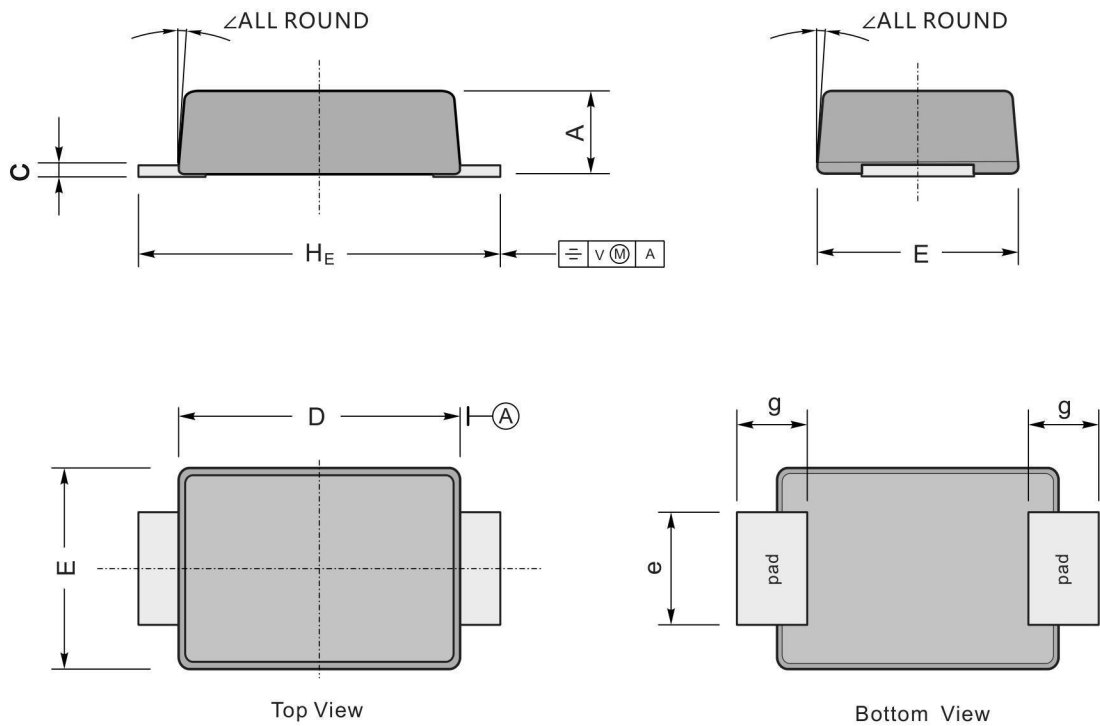
Typical Characteristic Curves



Package Outline

SMAF

Dimensions in mm



UNIT		A	C	D	E	e	g	H _E	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	47	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	