

Features

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

SMAF



1.Cathode  2.Anode

Marking Code :

SS32F-TN : SS32
 SS34F-TN : SS34
 SS345F-TN : SS345
 SS36F-TN : SS36
 SS38F-TN : SS38
 SS310F-TN : SS310
 SS312F-TN : SS312
 SS315F-TN : SS315
 SS320F-TN : SS320

Maximum Ratings and Electrical Characteristics

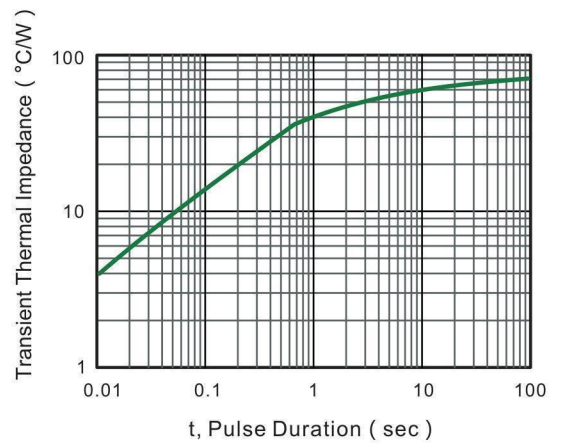
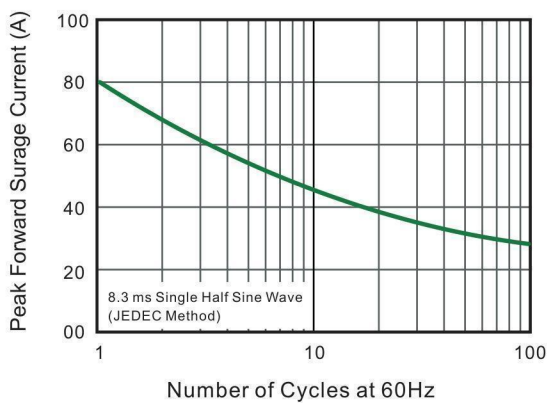
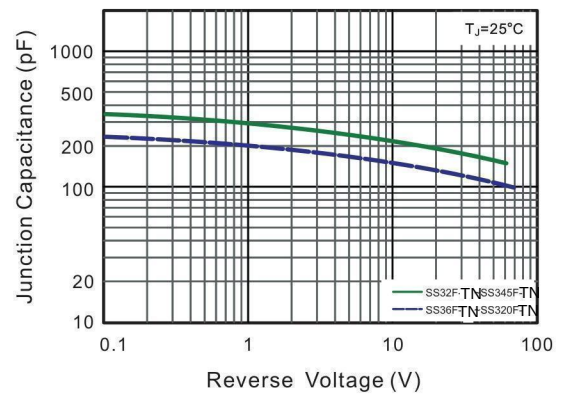
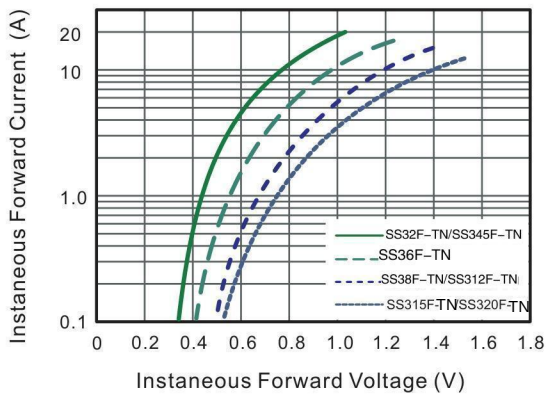
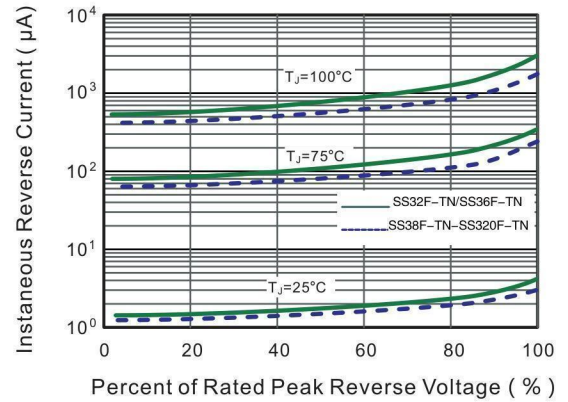
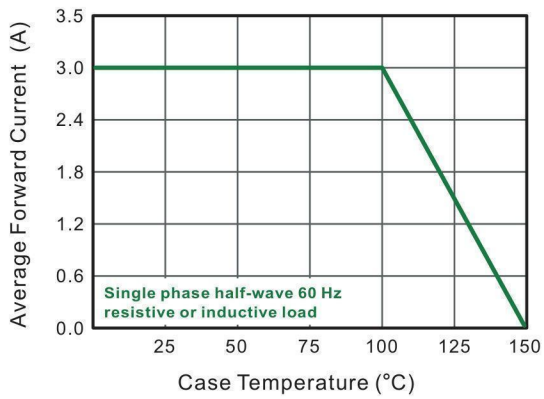
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbol	SS32F -TN	SS34F -TN	SS345F -TN	SS36F -TN	SS38F -TN	SS310F -TN	SS312F -TN	SS315F -TN	SS320F -TN	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	32	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0									A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80									A
Maximum Instantaneous Forward Voltage at 3 A	V _F	0.55			0.70	0.85			0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25 °C T _A = 100 °C	I _R	0.5 5				0.3 3				mA	
Typical Junction Capacitance ^{Note1}	C _j	250			180						pF
Typical Thermal Resistance ^{Note2}	R _{θJA} R _{θJC}	70 18									°C/W
Operating Junction Temperature Range	T _J	-55 to +150									°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.

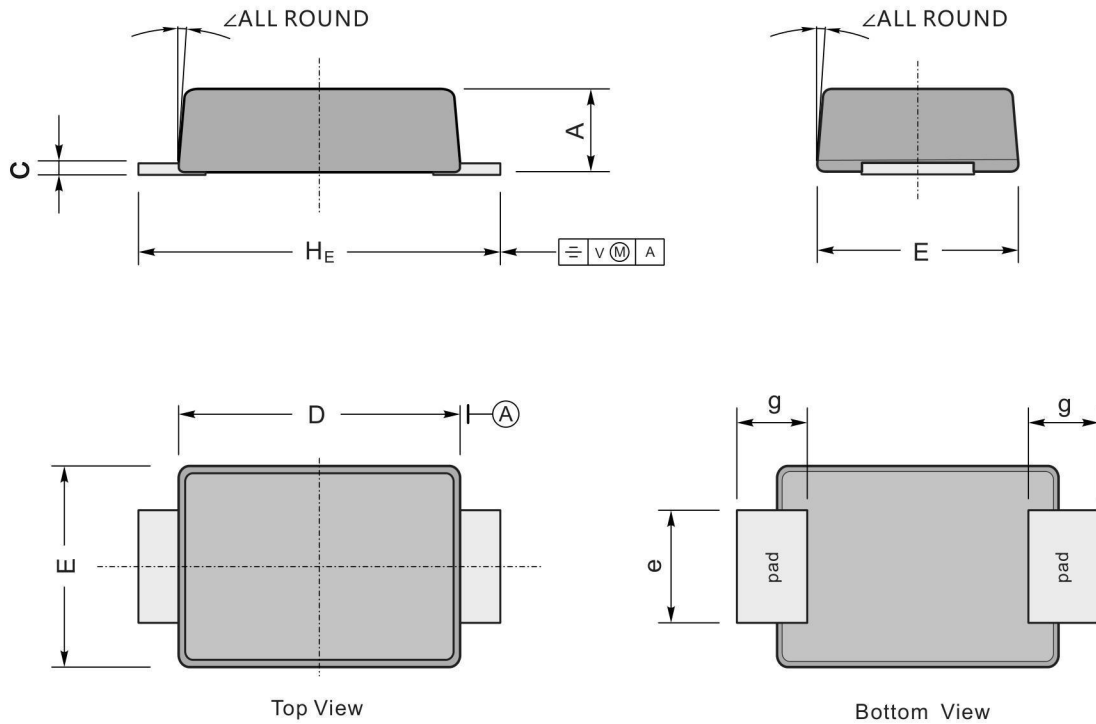
Typical Characteristic Curves



Package Outline

SMAF

Dimensions in mm



UNIT		A	C	D	E	e	g	H _E	$\angle$
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	