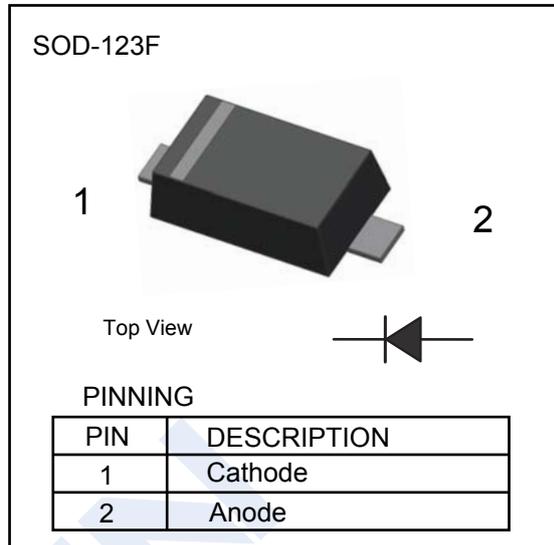


## Schottky Diodes

## SS32F ~ SS320F

## ■ Features

- Low power loss, high efficiency
- High forward surge current capability
- Reverse Voltage - 20 to 200 V
- Forward Current - 3A

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	SS 32F	SS 34F	SS 36F	SS 38F	SS 310F	SS 312F	SS 315F	SS 320F	Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	120	150	200	V	
RMS Voltage	$V_{RMS}$	14	28	42	56	70	84	105	140		
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	120	150	200		
Forward Voltage @ 3A	$V_F$	0.55		0.7		0.85		0.95		A	
Averaged Forward Current.	$I_{FAV}$	3									
Peak Forward Surge Current @ 8.3ms	$I_{FSM}$	80				70				mA	
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ $T_a=100^\circ\text{C}$	$I_R$	0.5		0.3		5					
Typical Junction Capacitance (Note.1)	$C_j$	250			160				pF		
Typical Thermal Resistance	$R_{\theta JA}$	40									$^\circ\text{C}/\text{W}$
Junction Temperature	$T_j$	125									$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150									

Note.1: Measured at 1MHz and applied reverse voltage of 4 V D.C.

## ■ Marking

NO.	SS32F	SS34F	SS36F	SS38F	SS310F	SS312F	SS315F	SS320F
Marking	S32	S34	S36	S38	S310	S312	S315	S320

# Schottky Diodes

## SS32F ~ SS320F

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

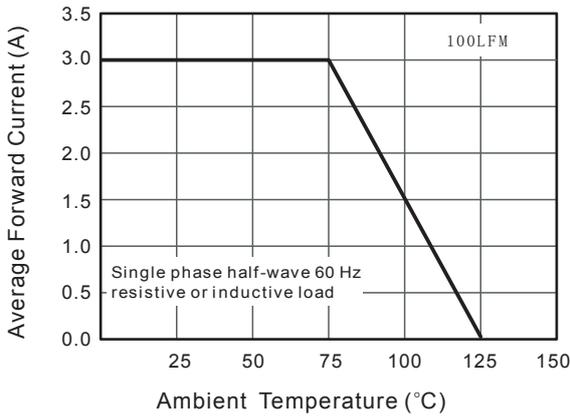


Fig.2 Typical Reverse Characteristics

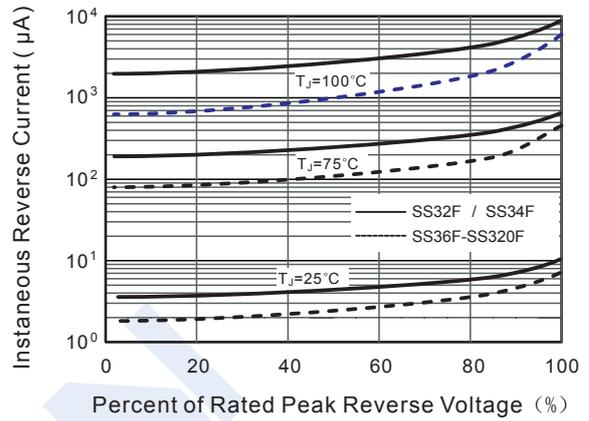


Fig.3 Typical Forward Characteristic

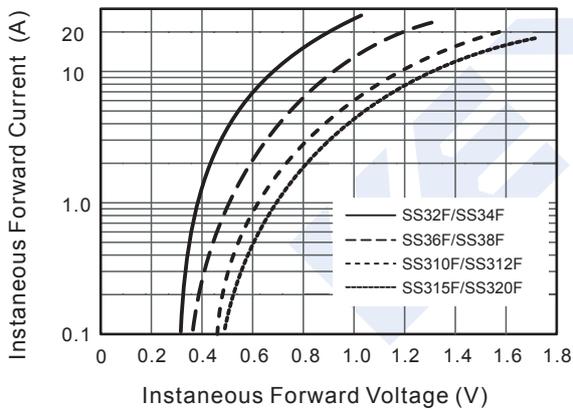


Fig.4 Typical Junction Capacitance

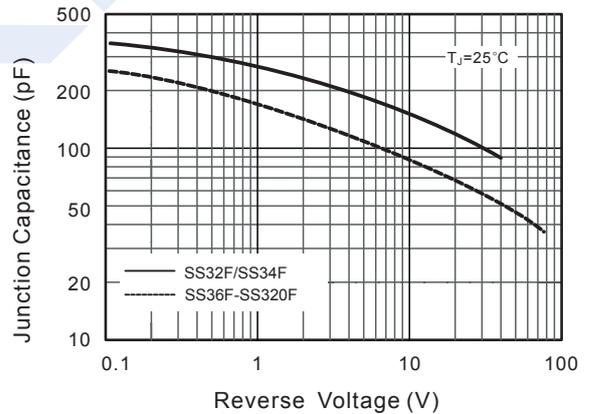


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

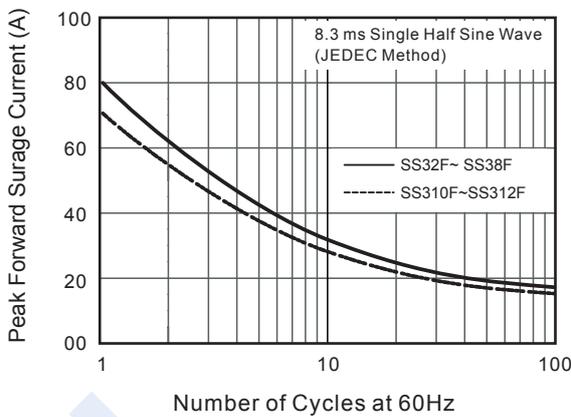
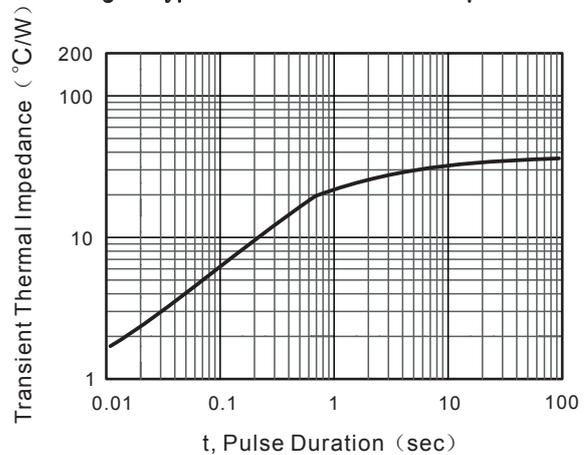


Fig.6- Typical Transient Thermal Impedance

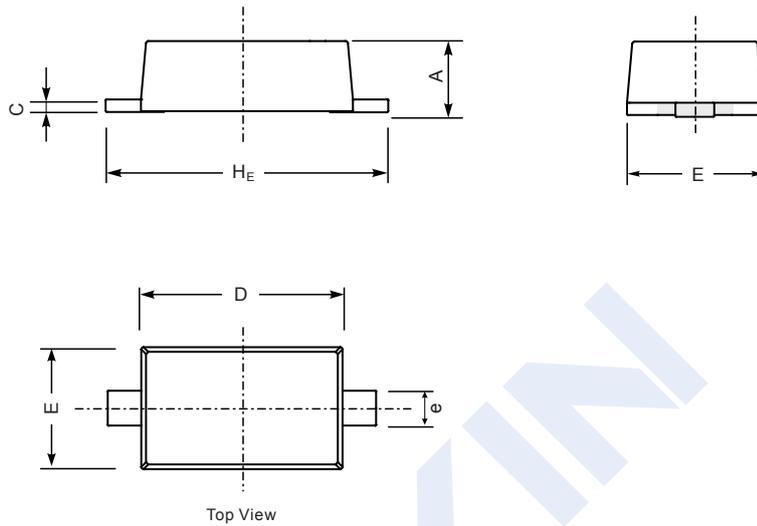


## Schottky Diodes

## SS32F ~ SS320F

Plastic surface mounted package; 2 leads

SOD-123F



UNIT		A	C	D	E	e	H <sub>E</sub>
mm	max	1.0	0.20	2.7	1.7	0.7	3.7
	min	0.8	0.05	2.5	1.5	0.5	3.3
mil	max	39	8	106	67	28	146
	min	31	2	98	59	20	130