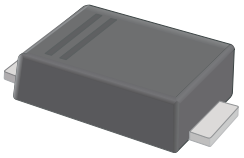
Schottky Diodes

SS32FL ~ SS320FL

SOD-123FL



Top View

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

■ Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

■ Absolute Maximum Ratings Ta = 25℃ unless otherwise specified

Parameter	Symbol	SS 32FL	SS 34FL	SS 36FL	SS 38FL	SS 310FL	SS 312FL	SS 315FL	SS 320FL	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Surge Peak Reverse Voltage	V_{RSM}	14	28	42	56	70	84	105	140	
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	
Averaged Forward Current	I_O	3								A
Peak forward surge current	I_{FSM}	80				70				
Instantaneous Forward Voltage at 3A	V_F	0.55		0.7		0.85		0.95		V
Maximum DC Reverse Current T_A=25℃	I_R	0.5		0.3						mA
at rated DC blocking voltage T_A=100℃		10		5						
Typical Junction Capacitance *1	C_j	250		160						pF
Typical thermal resistance *2	R_{thJA}	80								℃/W
Junction Temperature	T_j	150								℃
Storage Temperature	T_{stg}	-55 to 150								

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

* 2 P.C.B. mounted with 2″ × 2″ (5×5 cm) copper pad areas.

■ Marking

NO.	SS32FL	SS34FL	SS36FL	SS38FL	SS310FL	SS312FL	SS315FL	SS320FL
Marking	S32	S34	S36	S38	S310	S312	S315	S320

Schottky Diodes

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■ Typical Characterisitics

Fig.1 Forward Current Derating Curve

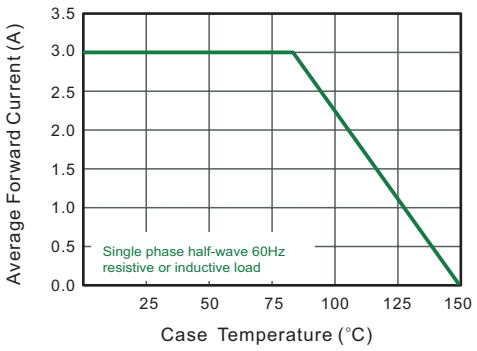


Fig.2 Typical Reverse Characteristics

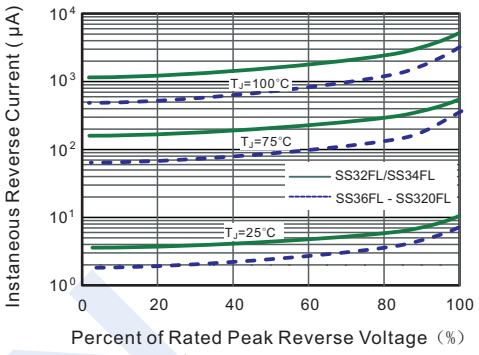


Fig.3 Typical Forward Characteristic

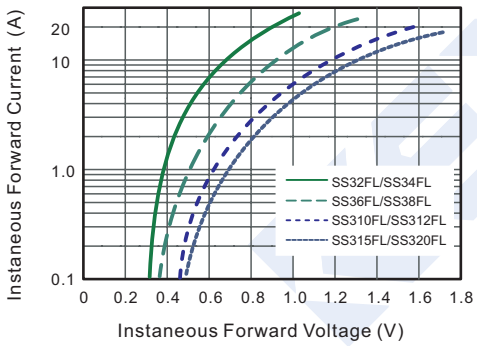


Fig.4 Typical Junction Capacitance

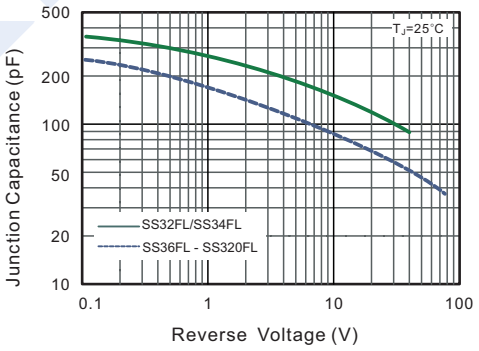


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

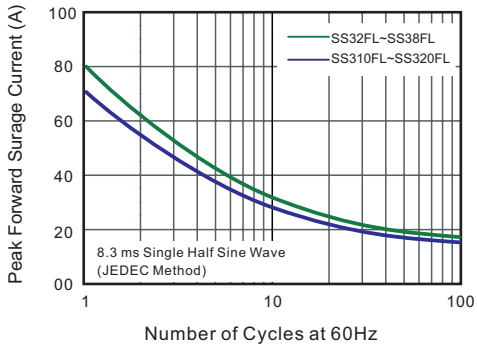
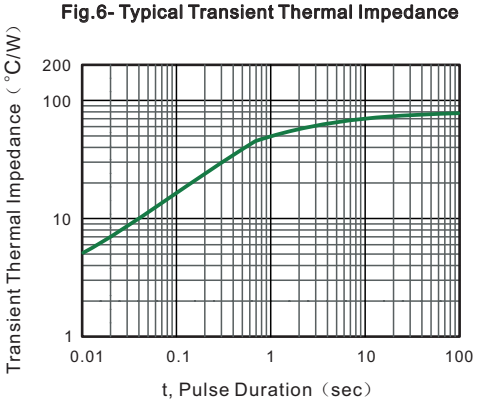


Fig.6- Typical Transient Thermal Impedance

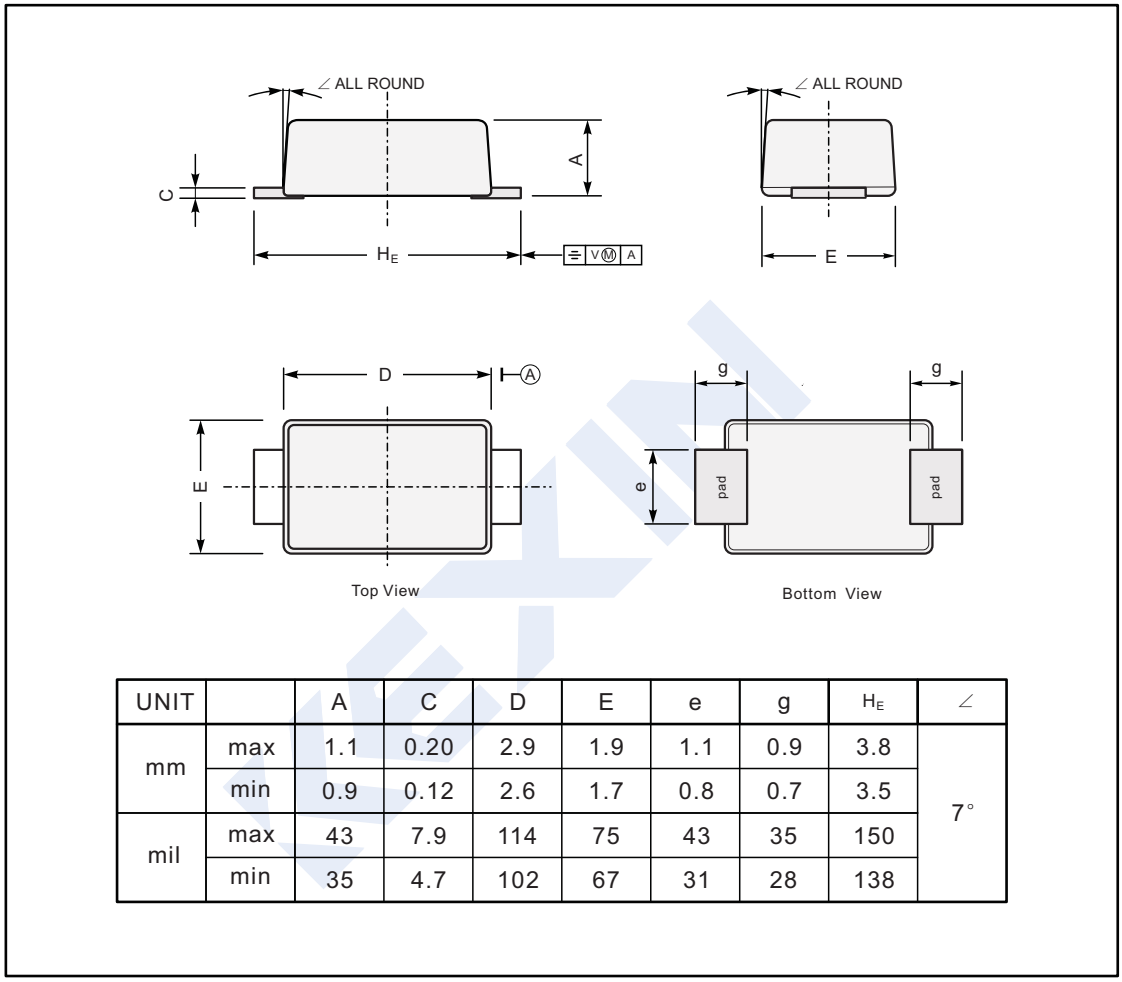


Schottky Diodes

SS32FL ~ SS320FL

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads SOD-123FL



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

■ The Recommended Mounting Pad Size