

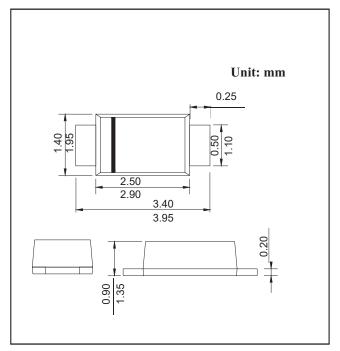
SOD123FL PLASTIC SILICON RECTIFIERS

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O Utilizing
- •For surface mounted applications
- Low power loss, high efficiency
- •Built-in strain relief,ideal for automated placement
- High current capability
- •High temperature soldering guaranteed:260 ℃/10 seconds at terminals

MECHANICAL DATA

- •Case: SOD-123FL molded plastic body
- Polarity:Color band denotes cathode end



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

	Symbols	SS 12	SS 13	SS 14	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120	Volts
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current (See Fig. 1)	I(AV)	I(AV) 1.0							Amp		
Peak forward surge current 8.3ms single he sine-wave superimposed on rated load (JEDEC method)	lFSM	40.0									Amps
Maximum instantaneous forward voltage at 1.0 A (note 1)	VF	0.55			(0.75		0.85		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) T __ =25° T __ =100°	IR	0.2								mA	
Typical thermal resistance (Note 2)	R nv B nv	88.0 28.0								℃/W	
Operating junction temperature range	TJ	55 to+150							℃		
Storage temperature range	Tstg	55 to+150							℃		

NOTES:

- 1. Pulse test: 300us pulse width, 1% duty cycle
- 2.P.C.B.mounted with 0.2*0.2"(5.0*5.0mm)copper pad areas

http://www.hfzt.net 1 Rev. 1.2, Oct-23



RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

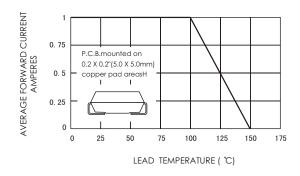
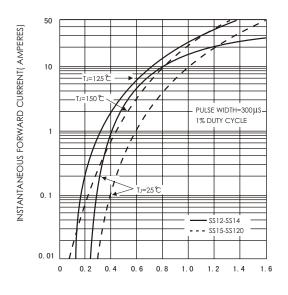


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

FIG.5-TYPICAL JUNCTION CAPACITANCE

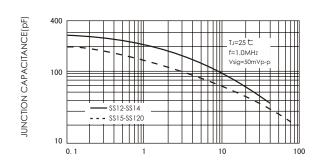


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

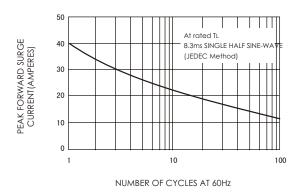
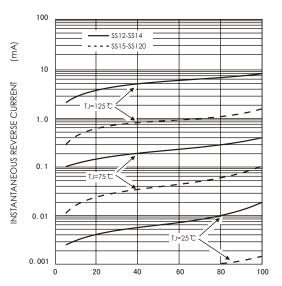


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE%