

SS12---SS120

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20--- 200 V CURRENT: 1.0 A

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 °C/10 seconds at terminals
- •Component in accordance to RoHS 2002/95/Ec and WEEE 2002/96/EC

MECHANICAL DATA

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

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.

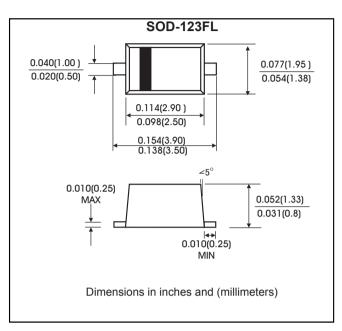
For capacitive load, derate by 20%.

		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)	1.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		Ifsm	40.0									Amps
Maximum instantaneous forward voltage at 1.0 A(note 1)		VF	0.55			C	0.75 0		.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T₄=25°C T₄=100°C	IR	0.2							mA		
Typical thermal resistance (Note 2)		R, ja R, jl	88.0 28.0									°C/W
Operating junction temperature range		TJ	-65 to+150									°C
Storage temperature range		Tstg	-65 to+150									°C

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





RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

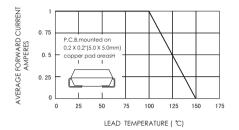


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

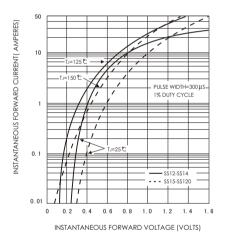


FIG.5-TYPICAL JUNCTION CAPACITANCE

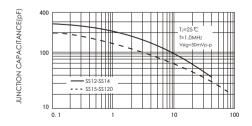
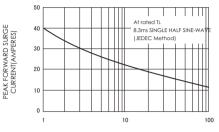
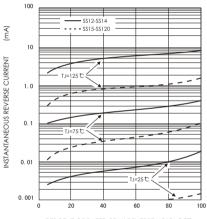


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE%