

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
260 C/10 seconds at terminals

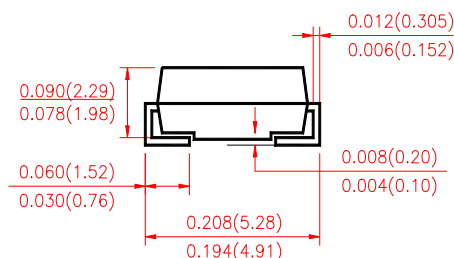
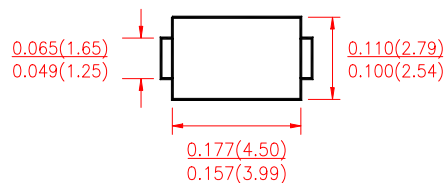
VOLTAGE RANGE

20 to 200 Volts

CURRENT

1.0 Ampere

DO-214AC(SMA)



Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounce, 0.064 gram

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER		SYMBOLS	SS 12	SS 14	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		V _{RMS}	14	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		V _{DC}	20	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at T _L see figure 1 T _L =105℃		I _(AV)	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	30								Amps
Maximum Instantaneous Forward Voltage @ 1.0A(Note1)		V _F	0.55		0.70		0.85			0.95	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25℃	I _R	0.5						0.2		mA
	T _A = 100℃		20.0			10.0		2.0			
Typical Thermal Resistance (Note 2)		R _{θJA}	80								℃/W
		R _{θJL}	28								
Operating Junction Temperature		T _J	(-55 to +125)				(-55 to +150)				℃
Storage Temperature Range		T _{STG}	(-55 to +125)								℃

Notes:

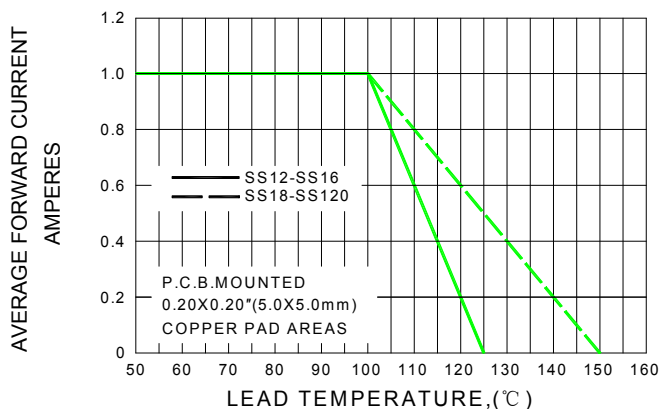
- Pulse test:300μs pulse width,1% duty cycle.
- Unit mounted on P.C.B. with 0.20"×0.20"(5.00mm×5.00mm) copper pads.

Marking

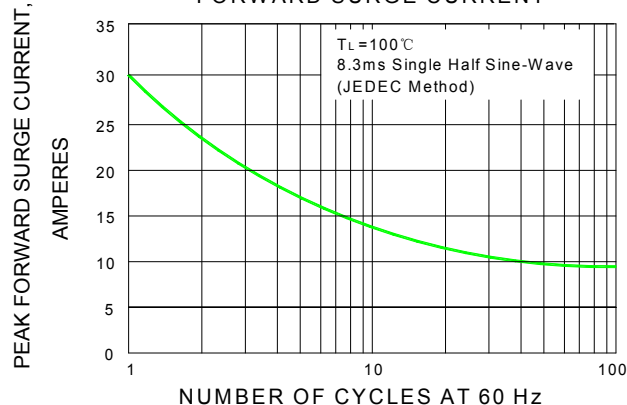
SYMBOLS	SS12	SS14	SS15	SS16	SS18	SS110	SS115	SS120
MARKING	SS12	SS14	SS15	SS16	SS18	SS110	SS115	SS120

Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

**FIG.1-FORWARD CURRENT
DERATING CURVE**



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



**FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS**

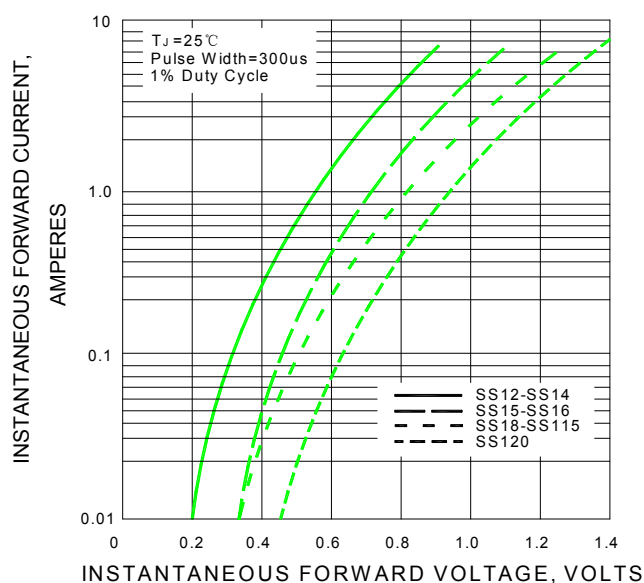


FIG.4-TYPICAL REVERSE CHARACTERISTICS

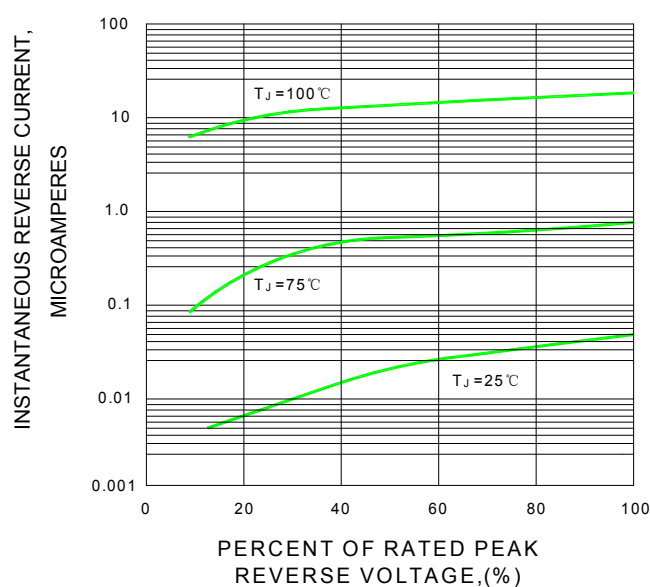
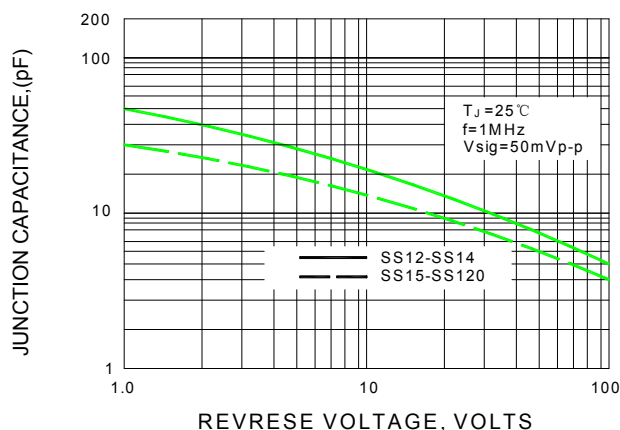


FIG.5-TYPICAL JUNCTION CAPACITANCE



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