

VOLTAGE RANGE CURRENT 20 to 200 Volts 3.0 Ampere



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



DO-214AB (SMC)

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: 0.007ounce, 0.21 gram

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%

	SYMBO	SS	SS	SS	SS	SS	SS	SS	SS	
TYPE NUMBER	LS	32	34	35	36	38	310	315	320	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 = 100°C	I _(AV)	3.0							Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		80						Amps		
Maximum Instantaneous Forward Voltage @ 3.0A ^(Note1)		0.	55	0.70 0.85		0.90		Volts		
Maximum DC Reverse Current at rated DC $T_A = 25^{\circ}$ C				0	.1	0.01			01	mA
Blocking Voltage per element $T_A = 125^{\circ}C$	I _R	20.0			10.0		2.0			
Typical Thermal Resistance (Note 2)		50							°C/W	
		12							<i>C,</i> v v	
Diode junction capacitance (Note 3)	C ₁	30	300 200				рF			
Operating Junction Temperature	T,	-55 to +150 -65 to +175				+175	℃			
Storage Temperature Range	T _{STG}	-55 to +150						°C		

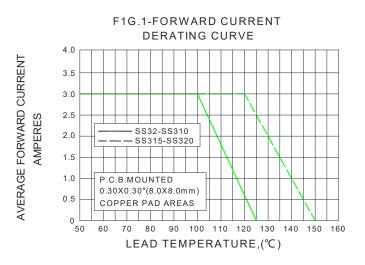
Notes:

- 1. Pulse test:300µs pulse width,1% duty cycle.
- 2. Thermal resistance from Junction to ambient and from junction to lead mounted on PCB. with 0.3×0.3"(8.0 × 8.0mm)copper pad areas.
- 3. f=1MHz and applied 4V DC reverse voltage.

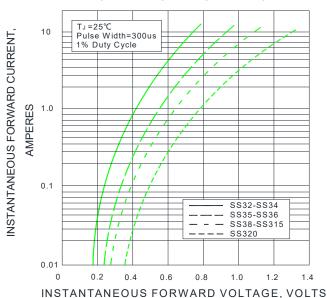


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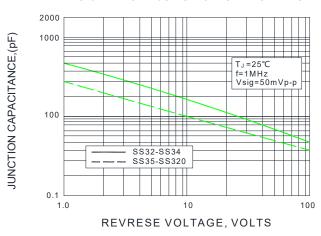
Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)



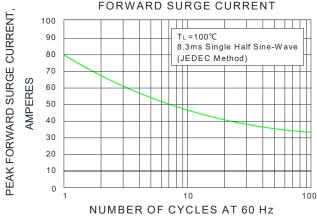
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



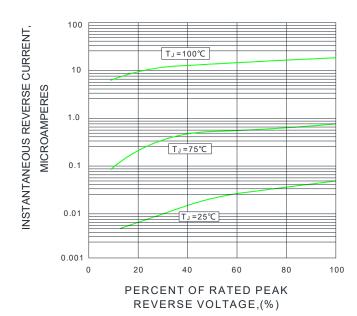
F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



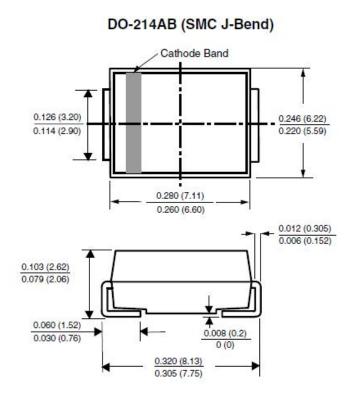
F1G.4-TYPICAL REVERSE CHARACTERISTICS

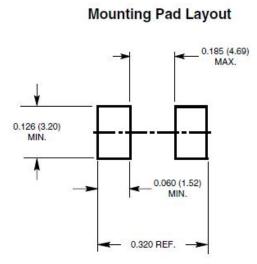




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Package Outline Dimensions in inches (millimeters)

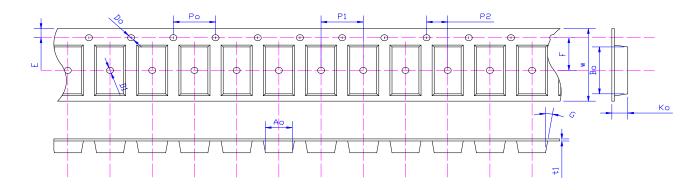




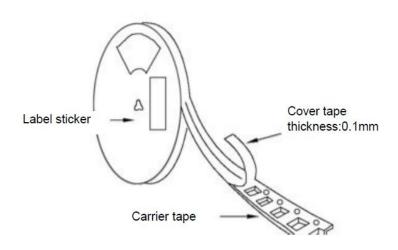


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Package Reel Information



Specifications	Ao	Во	Ко	Ро	W	t1
SMC	6.05±0.10	8.31±0.10	2.54±0.10	4.00±0.1	16.0±0.30	0.30±0.02

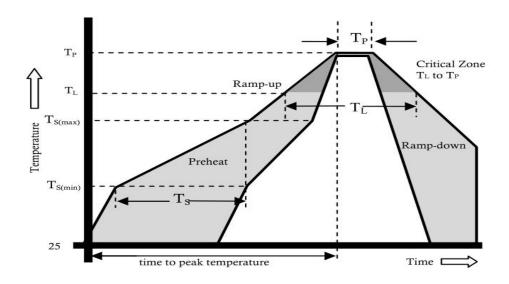


	Tape		13"Reel			07"Reel				
D	IDEVICE IYPEL		Q'TY/REEL(pcs	BOX/CARTOO	Q'TY/CARTON	Q'TY/REEL(pcs	REEL/BOX	BOX/CARTOO	Q'TY/CARTON	
)	Ν	(pcs))	REEL/BUX	N	(pcs)		
	SMC	16mm	3000	8	48000	800	3	8	19200	



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Reflow Profile



	Reflow Condition	Pb-Free Assembly		
	Temperature Min.	+150°C		
Pre Heat	Temperature Max.	+200°C		
	Time(Min to Max)	60-180 secs.		
Average ra	mp up rate(Liquidus Temp(T _L) to peak)	3°C/sec. Max.		
Т	s(max) to T _L - Ramp-up Rate	3°C/sec. Max.		
Doflow	Temperature (T _∟)(Liquidus)	+217°C		
Reflow	Temperature (T _L)	60-150 secs.		
	Peak Temp (T _P)	+(260+0/-5)°C		
Time v	vithin 5°C of actual Peak Temp (T _P)	25 secs.		
	Ramp-down Rate	6°C/sec. Max.		
1	Fime 25°C to peak Temp (T₂)	8 min. Max.		
	Do not exceed	+260°C		



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS32 THRU SS320

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