S8A THRU S8M	VOLTAGE RANGE	50 to 1000 Volts
SOA INKU SOW	CURRENT	8.0 Ampere

Features

- Plastic package has underwrites laboratory flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief, ideal for automated placement •
- Glass Passivated chip junction
- High temperature soldering: 250 °C/10 second at terminals

Mechanical Data

- Case: JEDED SMC (DO-214AB) molded plastic
- Terminals: Plated axial lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 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%

TYPE NUMBER			S8A	S8B	S8D	S8G	S8J	S8K	S8M	UNIT
Maximum Reverse Peak Repetitive Voltage			50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at T_c =110 $^{\circ}$ C			8.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)			220						Amps	
Maximum Instantaneous Forward Voltage drop Per Bridge element 8.0A		VF	1.1						Volts	
Maximum Reverse Current at rated DC	TA=25 ℃	- IR	5							– µAmps
blocking voltage per element	TA=125℃	IR	50							
Typical junction capacitance (NOTE 1)			30						pF	
Typical Thermal Resistance (NOTE 2)		Røjl	48						°C/W	
		R _{0JA}	15						°C/W	
Operating and Storage Temperature Range			(-55 to +150)						°C	

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C.B. with 0.3×0.3"(8.0 × 8.0mm) copper pads.



RoHS

DO-214AB (SMC)

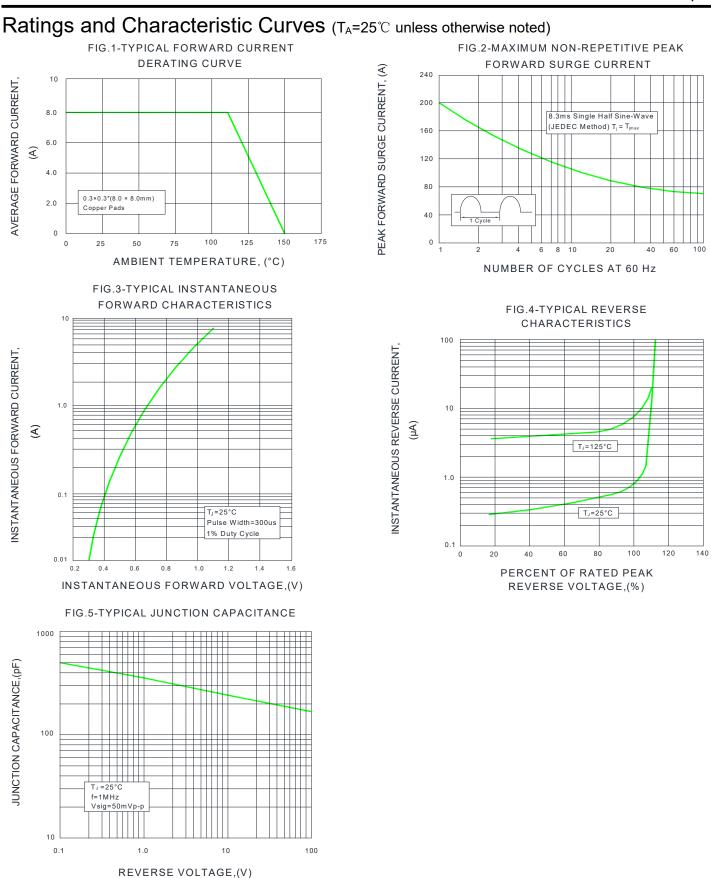


SURFACE MOUNT FAST SWITCHING RECTIFIER

S8A THRU S8M

VOLTAGE RANGE CURRENT 50 to 1000 Volts

8.0 Ampere

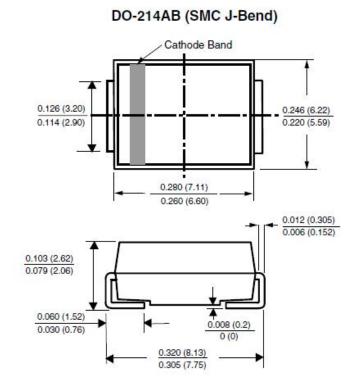




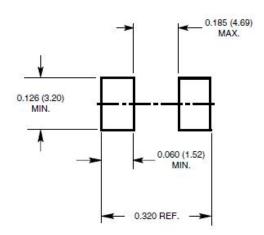
S8A THRU S8M

VOLTAGE RANGE50 to 1000 VoltsCURRENT8.0 Ampere

Package Outline Dimensions in inches (millimeters)



Mounting Pad Layout



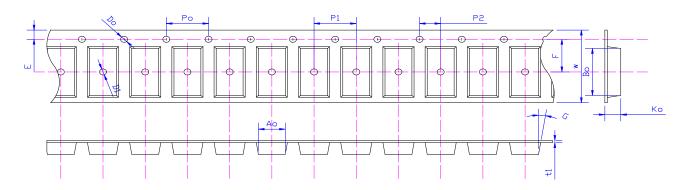


SURFACE MOUNT FAST SWITCHING RECTIFIER

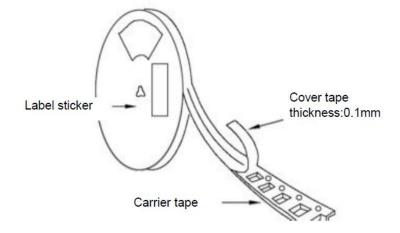
S8A THRU S8M

VOLTAGE RANGE CURRENT 50 to 1000 Volts 8.0 Ampere

Package Reel Information



Specifications	Ao	Во	Ko	Po	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



DEVICE Tape			13"Reel		07"Reel			
		Q'TY/REEL(p cs)	BOX/CARTO ON	Q'TY/CARTO N(pcs)	Q'TY/REEL(p cs)	REEL/BOX	BOX/CARTO ON	Q'TY/CARTO N(pcs)
SMC	16mm	3000	8	48000	800	3	8	19200

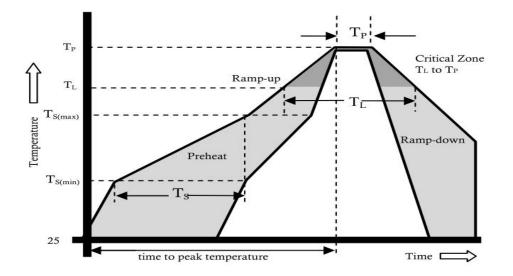


SURFACE MOUNT FAST SWITCHING RECTIFIER

S8A THRU S8M

VOLTAGE RANGE CURRENT 50 to 1000 Volts 8.0 Ampere

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 rar	np up rate(Liquidus Temp(T_L) to peak)	3°C/sec. Max.		
Τs	$_{\rm S}({ m max})$ to T _L - Ramp-up Rate	3°C/sec. Max.		
Reflow	Temperature (T∟)(Liquidus)	+217°C		
Reliow	Temperature (T _L)	60-150 secs.		
	Peak Temp (T _P)	+(260+0/-5)°C		
Time within 5°C of actual Peak Temp (T _P)		25 secs.		
	Ramp-down Rate	6°C/sec. Max.		
Ti	ime 25°C to peak Temp (T _P)	8 min. Max.		
	Do not exceed	+260°C		



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Disclaimer

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