

## S8K / S8M

### SURFACE MOUNT RECTIFIER

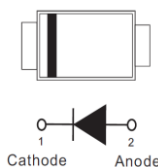
**Voltage** **800~1000 V** **Current** **8 A**

#### Features

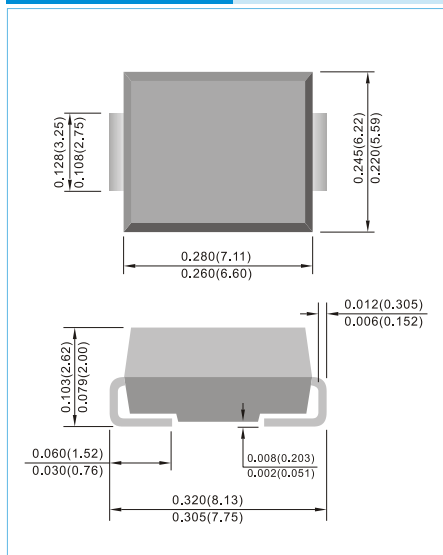
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### Mechanical Data

- Case: SMC package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0082 ounces, 0.233 grams
- Marking: Part number



**SMC / DO-214AB** Unit : inch(mm)

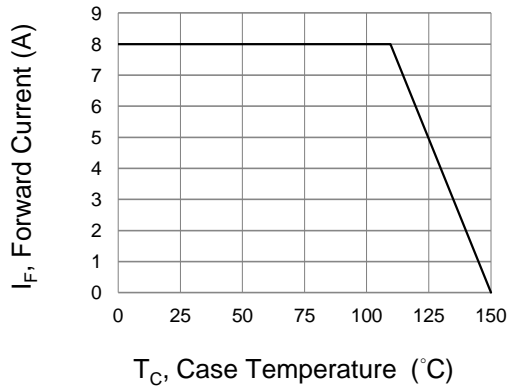


### Maximum Ratings And Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

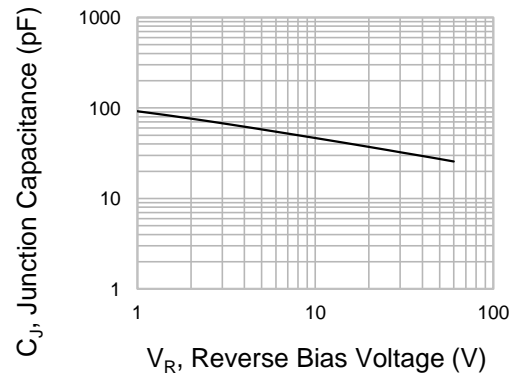
PARAMETER		SYMBOL	S8K	S8M	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	800	1000	V
Maximum rms voltage		V <sub>RMS</sub>	560	700	V
Maximum dc blocking voltage		V <sub>R</sub>	800	1000	V
Maximum average forward rectified current		I <sub>F(AV)</sub>	8		A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	400		A
Maximum forward voltage at 8A		V <sub>F</sub>	0.985		V
Maximum dc reverse current at rated dc blocking voltage		I <sub>R</sub>	10		μA
Typical junction capacitance Measured at 1MHz and applied V <sub>R</sub> =4V		C <sub>J</sub>	65		pF
Typical thermal resistance	(Note 2)	R <sub>θJA</sub>	125		°C/W
	(Note 1)	R <sub>θJL</sub>	10		
	(Note 1)	R <sub>θJC</sub>	6		
Operating junction temperature range		T <sub>J</sub>	-55 to +150		°C
Storage temperature range		T <sub>STG</sub>	-55 to +150		°C

Note : 1. Mounted on a 10cm x 10cm x 0.5mm copper pad area.  
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

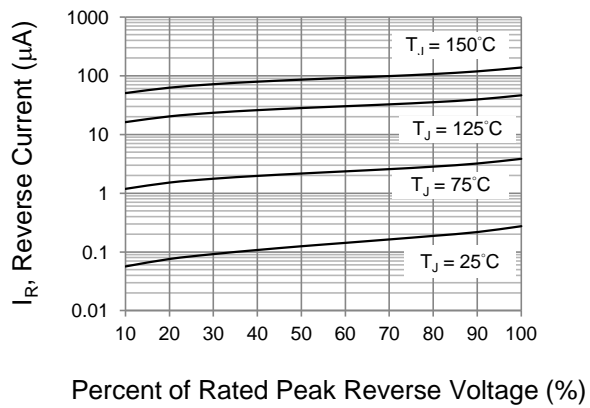
## S8K / S8M



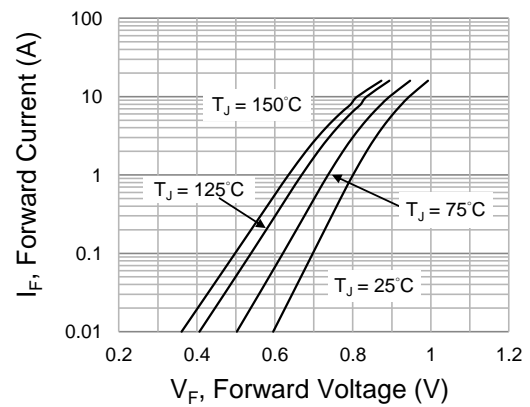
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



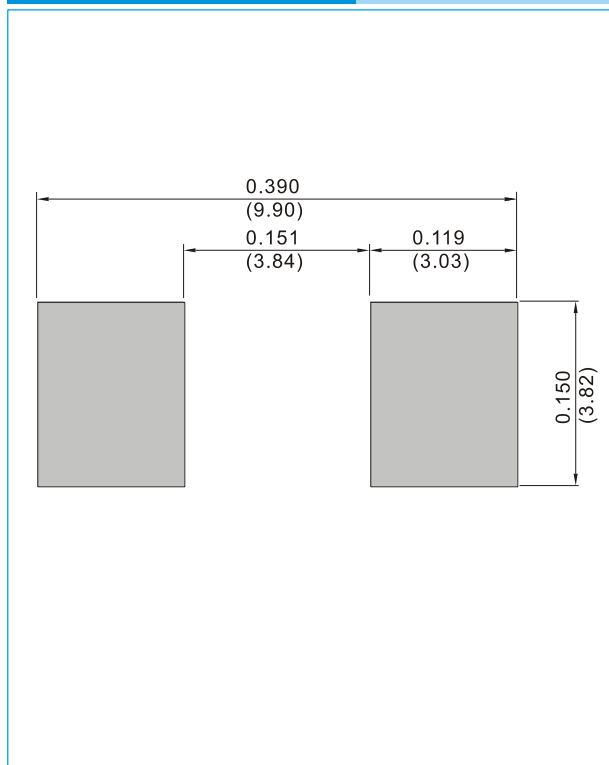
**Fig.4 Typical Forward Characteristics**

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### MOUNTING PAD LAYOUT

SMC / DO-214AB

Unit : inch(mm)



### ORDER INFORMATION

- Packing information
  - T/R – 3K per 13" plastic Reel
  - T/R – 0.8K per 7" plastic Reel



## S8K / S8M

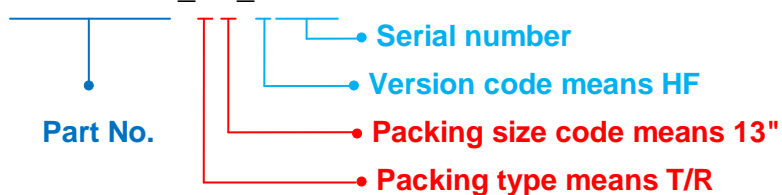
Part No\_packing code\_Version

S8K\_R1\_00001

S8K\_R2\_00001

For example :

RB500V-40\_R2\_00001



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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