



# S8K / S8M

## SURFACE MOUNT RECTIFIER

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

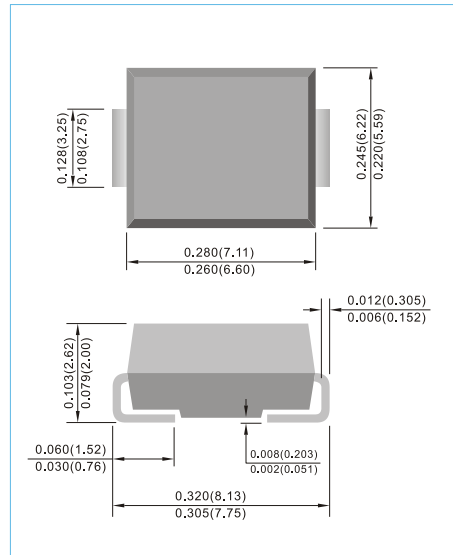
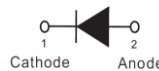
SMC / DO-214AB Unit : inch(mm)

### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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



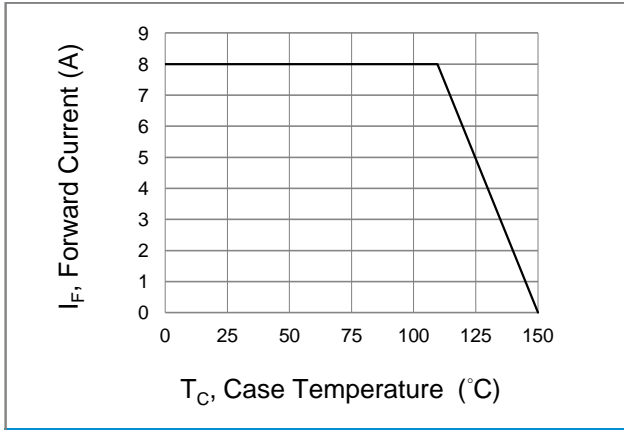
### Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25° C unless otherwise noted)

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

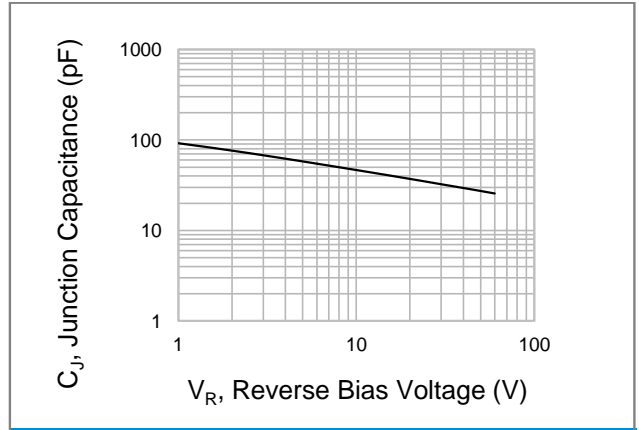
Note : 1. Mounted on a 10cm x 10cm x 0.5mm copper pad area.  
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



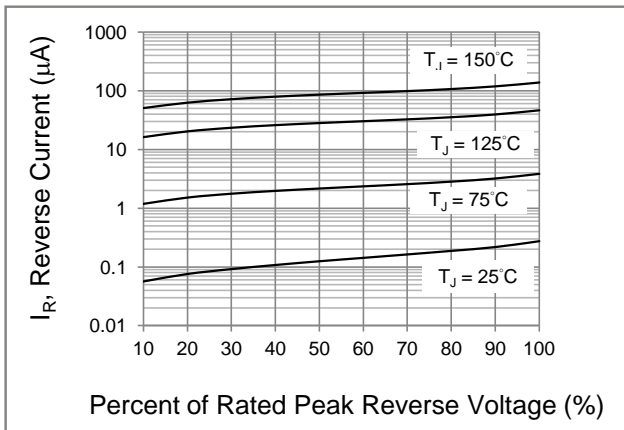
# S8K / S8M



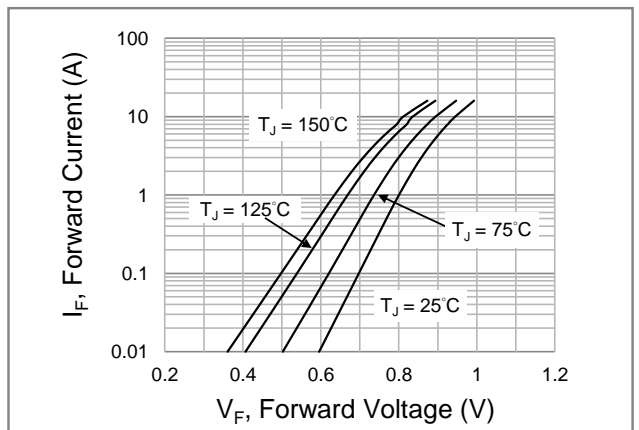
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

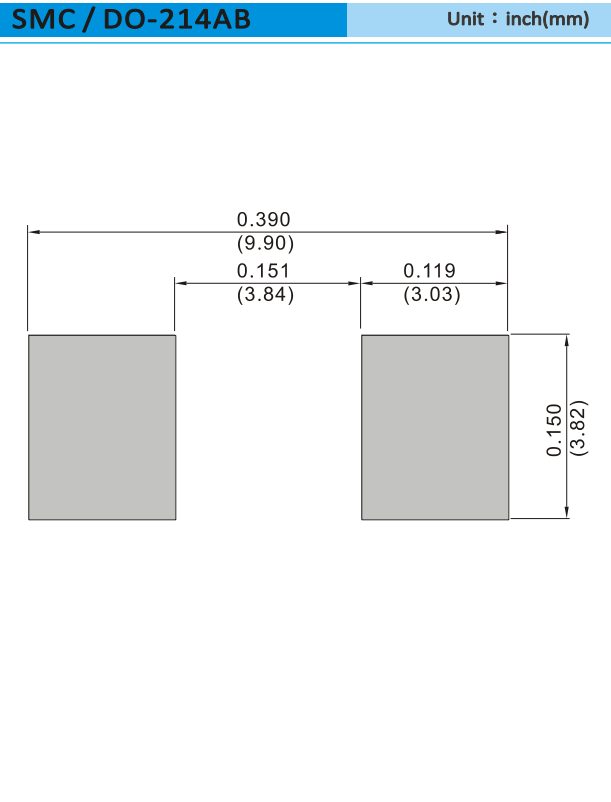


**Fig.4 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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



## S8K / S8M

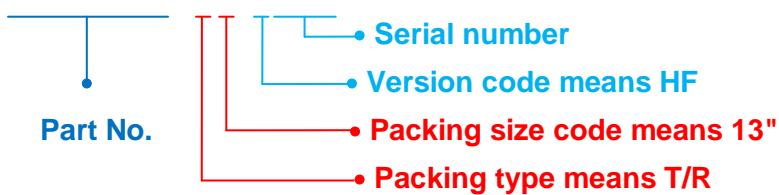
Part No\_packing code\_Version

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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