

S8K-AU / S8M-AU

SURFACE MOUNT RECTIFIER

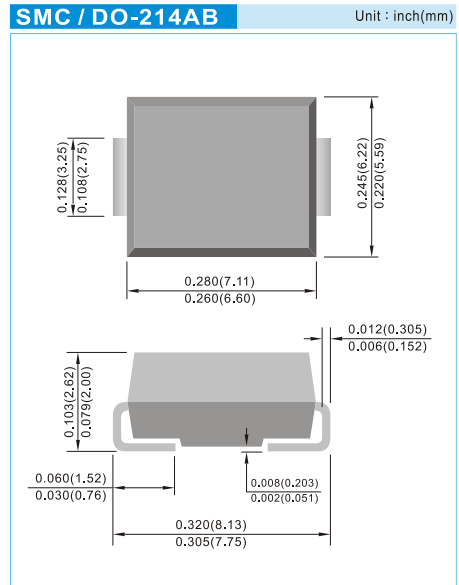
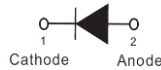
Voltage	800~1000 V	Current	8 A
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Features

- 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
- AEC-Q101 qualified

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_A=25°C unless otherwise noted)

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

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TYPICAL CHARACTERISTIC CURVES

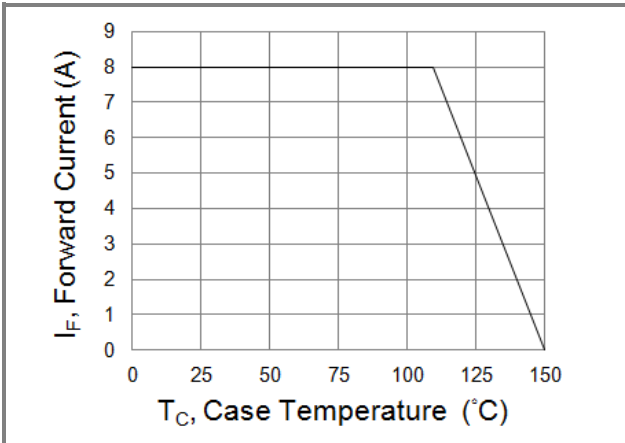


Fig.1 Forward Current Derating Curve

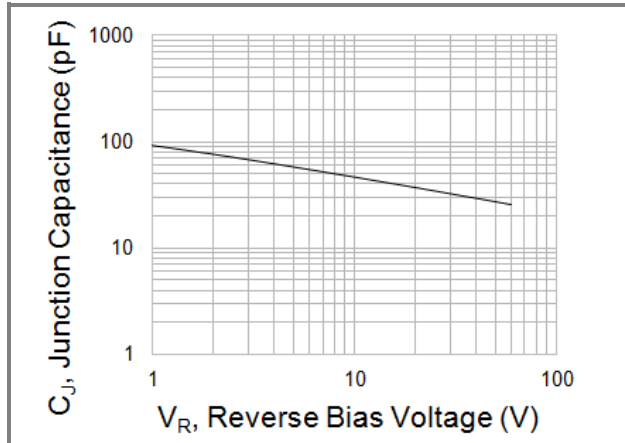


Fig.2 Typical Junction Capacitance

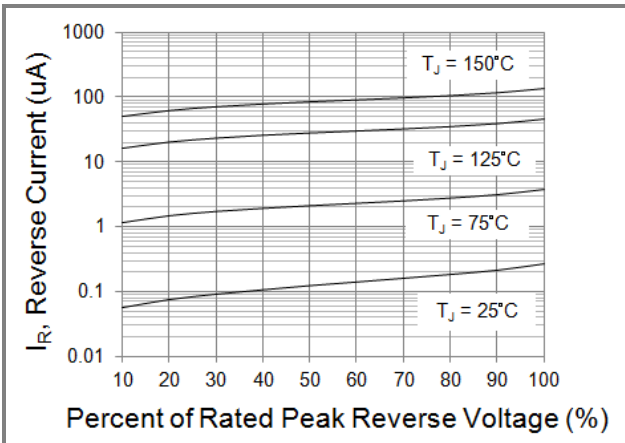


Fig.3 Typical Reverse Characteristics

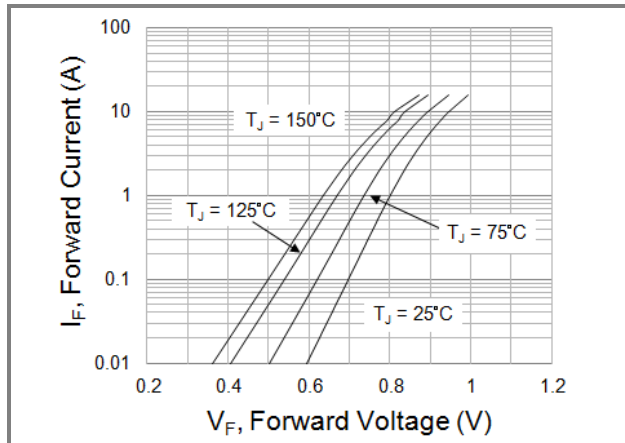
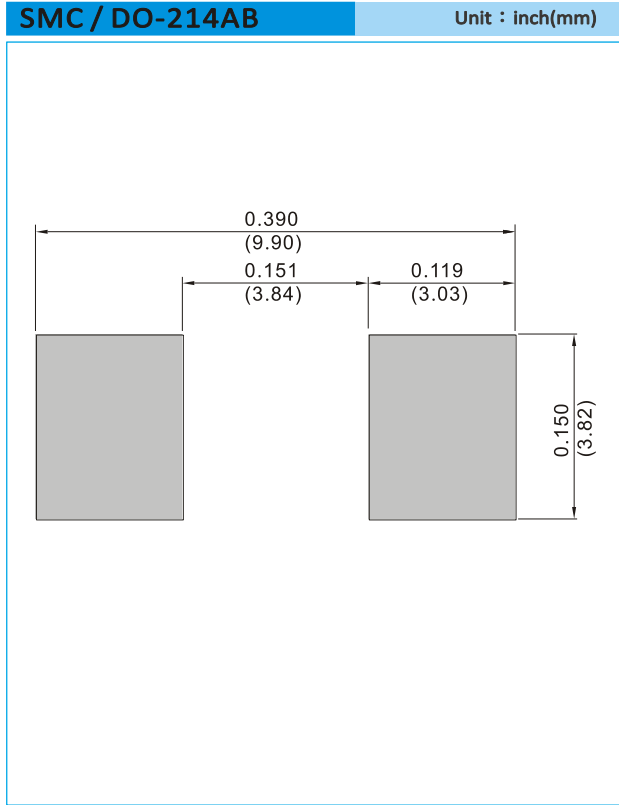


Fig.4 Typical Forward Characteristics

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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

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