



S8K-AU / S8M-AU

SURFACE MOUNT RECTIFIER

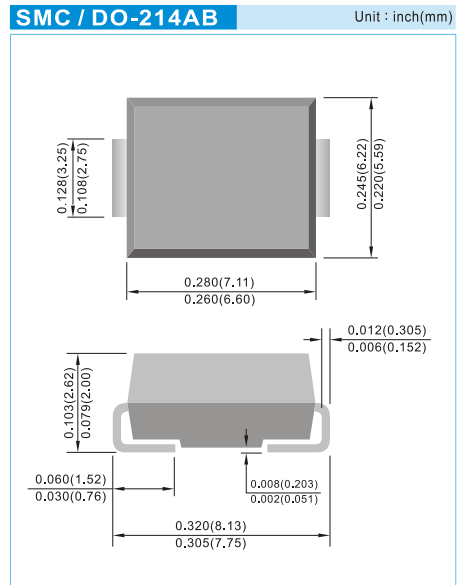
Voltage	800~1000 V	Current	8 A
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Features

- 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

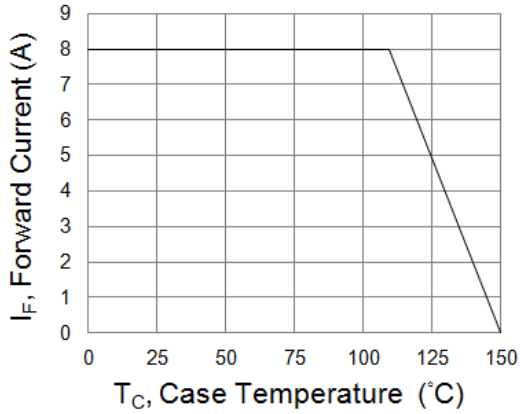


Fig.1 Forward Current Derating Curve

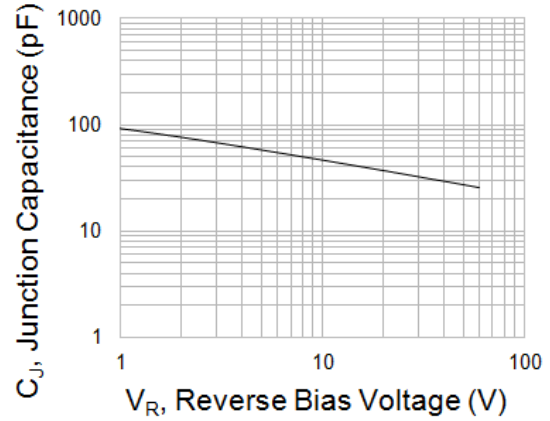


Fig.2 Typical Junction Capacitance

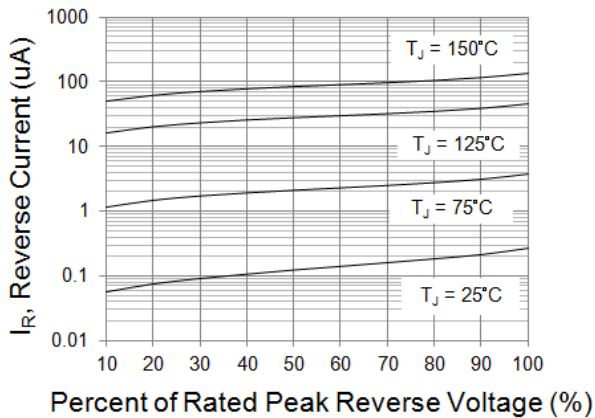


Fig.3 Typical Reverse Characteristics

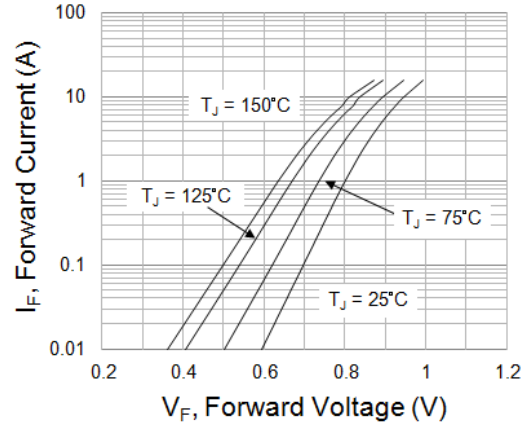
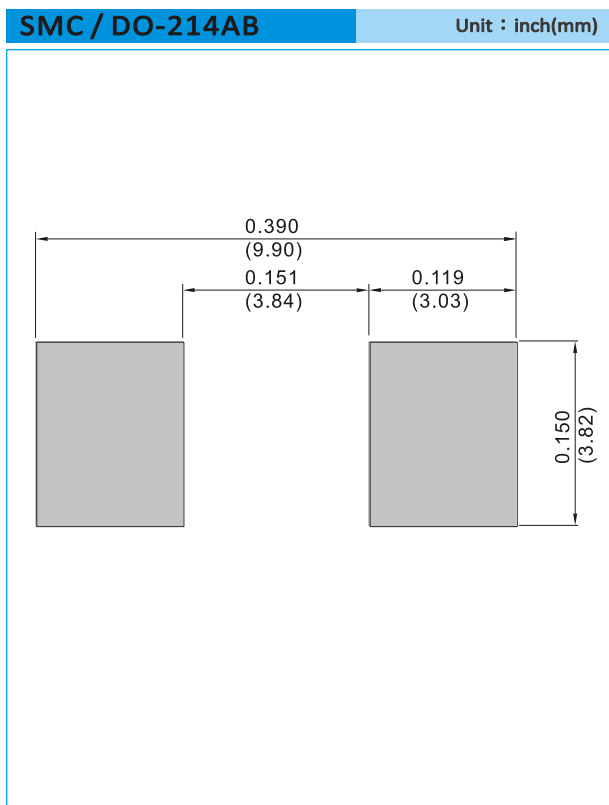


Fig.4 Typical Forward Characteristics



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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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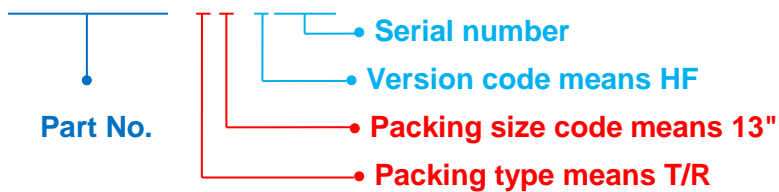
Part No. _packing code_ Version

S8K-AU_R1_000A1

S8K-AU_R2_000A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd _5 th 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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