



S8K-AU / S8M-AU

SURFACE MOUNT RECTIFIER

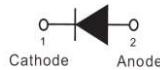
Voltage 800~1000 V **Current** 8 A

Features

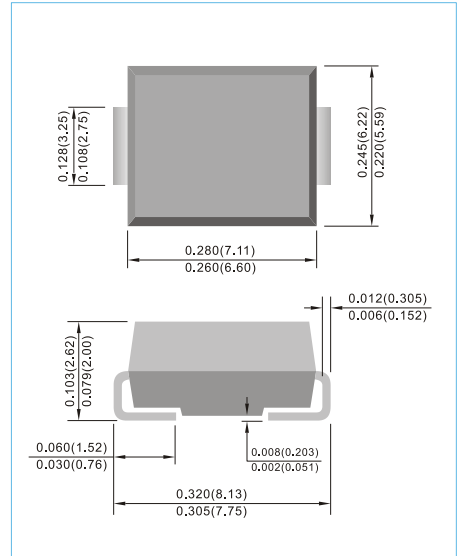
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 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



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



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ 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 $V_R=4\text{V}$	C_J	65		pF
Typical thermal resistance	(Note 2) $R_{\theta JA}$	125		$^{\circ}\text{C/W}$
	(Note 1) $R_{\theta JL}$	10		
	(Note 1) $R_{\theta JC}$	6		
Operating junction temperature range	T_J	-55 to +150		$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150		$^{\circ}\text{C}$

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.

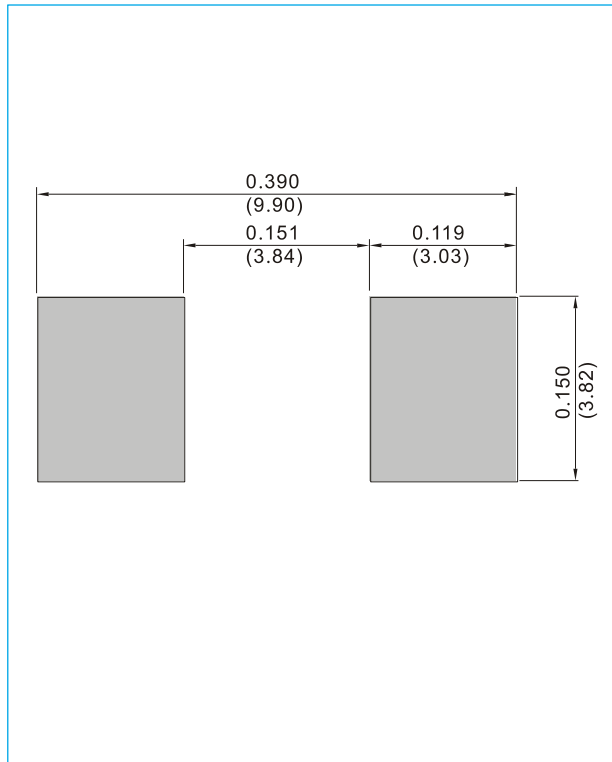


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MOUNTING PAD LAYOUT

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



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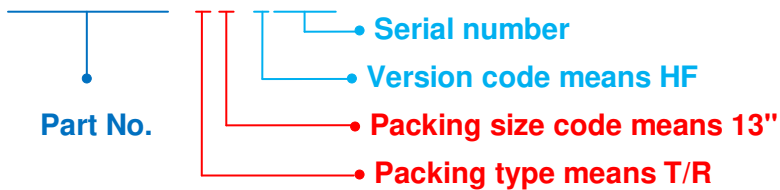
Part No_packing code_Version

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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