

S8KC-HF Thru. S8MC-HF

Reverse Voltage: 800 to 1000 Volts

Forward Current: 8.0 Amp

RoHS Device Halogen Free



Features

- For surface mounted applications.
- Low profile package.
- Glass passivated chip junction.
- Easy to pick and place.

Mechanical data

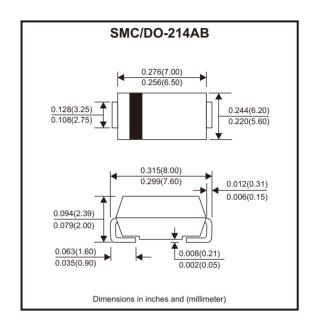
- Case: SMC

- Terminals: Solderable per MIL-STD-750,

method 2026.

Circuit Diagram





Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20%

Parameter	Symbols	S8KC-HF	S8MC-HF	Units
Maximum repetitive peak reverse voltage	Vrrm	800	1000	V
Maximum RMS voltage	VRMS	560	700	V
Maximum DC blocking voltage	VDC	800 1000		V
Maximum average forward rectified current	lf(AV)	8		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Iғsм	200		
Max instantaneous forward voltage at 8A	VF	0.985		V
	lr	10 250		μA
Typical junction capacitance (Note 1) C _j 40		0	pF	
Typical thermal resistance (Note 2)	Reja Rejc			°C/W
Operating and storage temperature range	Tj, Tstg	-55 ~ +150		

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C

2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Company reserves the right to improve product design, functions and reliability without notice.

SMD General Purpose Rectifiers



Rating and Characteristic Curves (S8KC-HF Thru. S8MC-HF)

Fig.1 - Forward Current Derating Curve

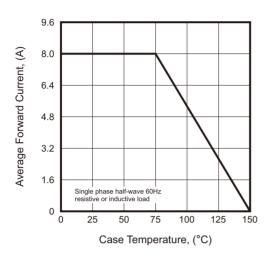


Fig.3 - Typical Forward Characteristic

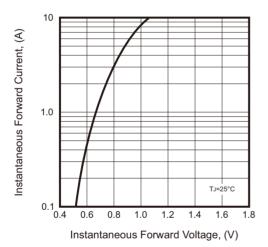


Fig.5 - Maximum Non-Repetitive Peak Forward Surge Current

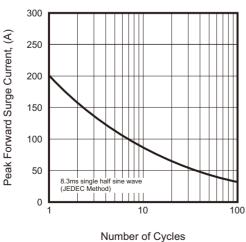


Fig.2 - Typical Reverse Characteristics

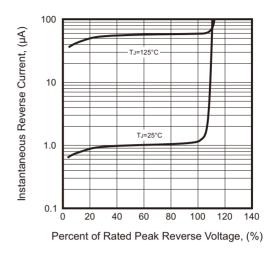
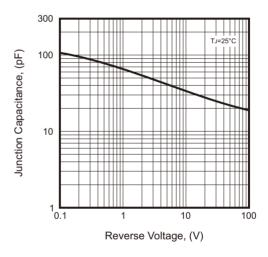


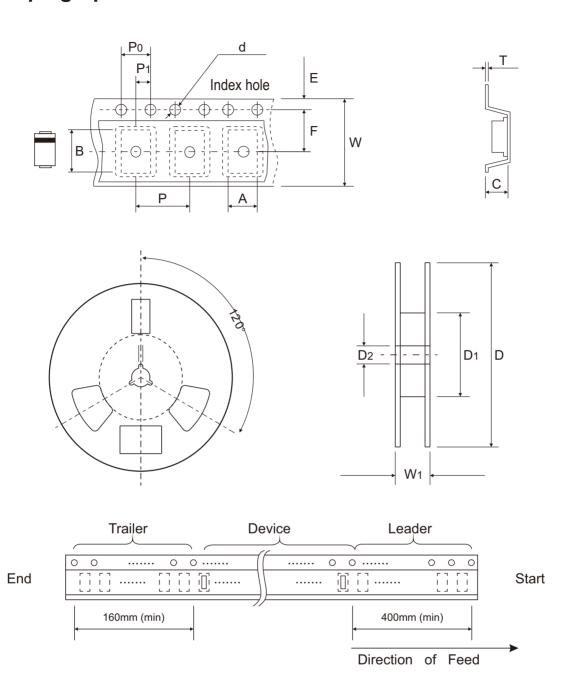
Fig.4 - Typical Junction Capacitance



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Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D1	D2
DO-214AB (SMC)	(mm)	6.22 ± 0.10	8.31 ± 0.10	2.49 ± 0.10	1.55 ± 0.05	330 ± 2.00	100.00 ± 1.00	13.00 ± 0.20
	(inch)	0.245 ± 0.004	0.327 ± 0.004	0.098 ± 0.004	0.061 ± 0.002	12.992 ± 0.079	3.937 ± 0.039	0.512 ± 0.008

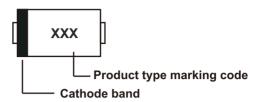
	SYMBOL	E	F	Р	P ₀	P1	T	W	W 1
DO-214AB (SMC)	(mm)	1.75 ± 0.10	7.50 ± 0.10	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.28 ± 0.02	16.00 ± 0.30	21.00 + 2.00 - 1.00
	(inch)	0.069 ± 0.004	0.295 ± 0.004	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.011 ± 0.001	0.630 ± 0.012	0.827 + 0.079 - 0.039

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Marking Code

Part Number	Marking Code
S8KC-HF	S8K
S8MC-HF	S8M

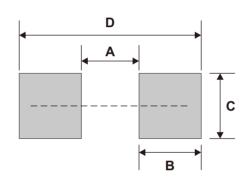


xxx = Product type marking code

Suggested PAD Layout

SIZE	DO-214AB (SMC)		
OILL	(mm)	(inch)	
Α	3.80	0.150	
В	4.10	0.161	
С	4.30	0.169	
D	12.00	0.472	

Note: 1. The pad layout is for reference purpose only.



Standard Packaging

	REEL PACK		
Case Type	REEL (pcs)	Reel Size (inch)	
DO-214AB (SMC)	3,000	13	

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