



Surface Mount High Efficient Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Super fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

- Package: DO-214AB (SMC)
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes the cathode end

■Maximum Ratings (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HS5A	HS5B	HS5D	HS5F	HS5G	HS5J	HS5K	HS5M
Device marking code			HS5 >	HS5BHS5D	HS5FHS5G	HS5J	HS5K	HS5M		
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	300	400	600	800	1000

Unit-V A

5.0

Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	150							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			300							
Current squared time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	94							

Storage Temperature

T_{stg}

-55 ~ +150 HS5J

									HS5K	HS5M
Maximum instantaneous forward voltage	V _F	V	I _F M=5.0A	1.0	1.3	1.7	1.7	1.7	1.7	1.7

HS5A THRU HS5M

trr

0

■ Outline Dimensions

DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20

Ω Suggested pad layout

DO-214AB (SMC)	
Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82



HS5A THRU HS5M

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