



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-214AA (SMB)
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:** Cathode line denotes the cathode end

■Maximum Ratings (Ta=25 Unless otherwise specified)

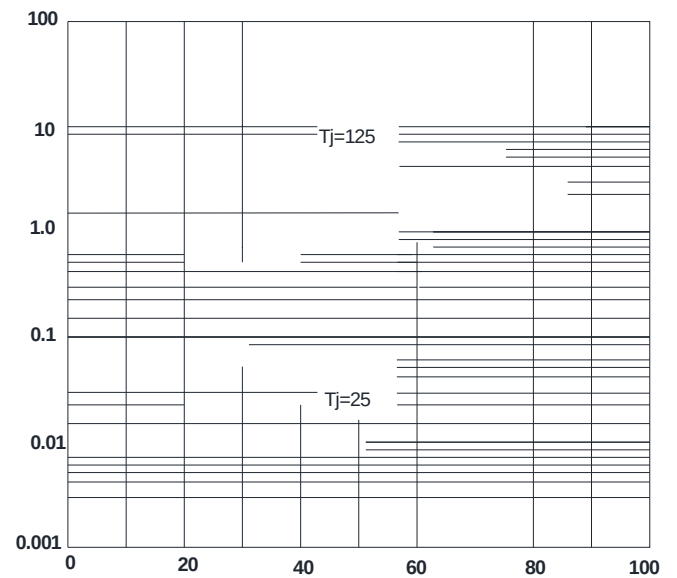
PARAMETER	SYMBOL	UNIT	HS3AB	HS3BB	HS3DB	HS3FB	HS3GB	HS3JB	HS3KB	HS3MB
Device marking code	VDC	V	HS3AB	HS3BB	HS3DB	HS3FB	HS3GB	HS3JB	HS3KB	HS3MB
			30	50	100	150	200	300	400	500

Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	IO	A	3.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	IFSM	A	100							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			200							
Current squared time @1ms≤t≤8.3ms Tj=25	I ² t									

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■Ordering Information (Example)

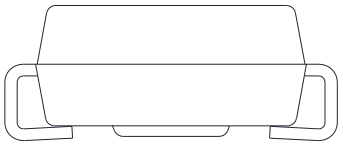
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HS3AB-HS3MB	F1	Approximate 0.096	3000	/	48000	13" reel
HS3AB-HS3MB	F2	Approximate 0.096	750	6000	24000	7" reel
HS3AB-HS3MB	F3	Approximate 0.096	500	4000	16000	7" reel



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Outline Dimensions

DO-214AA(SMB)



DO-214AA(SMB)		
Dim	Min	Max
A	1.85	2.15
B	3.30	3.94
C	4.05	4.75
D	1.99	2.61
E	5.21	5.59
F	0.90	1.41
G	0.05	0.20
H	0.15	0.31

y Suggested pad layout

DO-214AA(SMB)	
Dim	Millimeters
P1	6.8
P2	4.3
P3	1.8
Q1	2.5
Q2	2.3



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Disclaimer

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