



HS1AB THRU HS1MB

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°C Unless otherwise specified)

Device marking code			HS1AB	HS1BB	HS1DB	HS1FB	HS1GB	HS1JB	HS1KB	HS1MB
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	300	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	210	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	300	400	600	800	1000
Average rectified output current @60Hz sine wave , resistance load , TL (Fig.1)	IO	A	1.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave , 1 cycle , Tj = 25	IFSM	A	30							
Forward Surge Current (Non-repetitive) @1ms , square wave , 1 cycle , Tj = 25			60							
Current squared time @1ms to 8.3ms Tj = 25	I²t	A²s	3.735							

Storage temperature



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Electrical Characteristics T_a



Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON
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Outline Dimensions

DQ-214AA(SMB)		
Dim	Min	Max
A	1.85	2.15
B	3.30	3.94
C	4.05	4.75
68D	1.99	2.61
E	5.21	5.59
F	0.90	1.41

Suggested pad layout



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