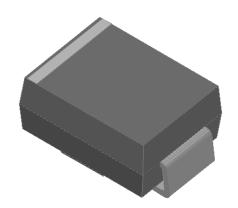


Surface Mount High Efficient Rectifier





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)

PARAMETER	SYMBOL	UNIT	HS2A	HS2B	HS2D	HS2F	HS2G	HS2J	HS2K	HS2M
Device marking code			HS2A	HS2B	HS2D	HS2F	HS2G	HS2J	HS2K	HS2M
Repetitive peak reverse voltage	VRRM	V	50	100	200	300	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, T _L (Fig.1)	Ю	Α				2.	.0			
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25°C	IFSM	Α				5	0			
Storage temperature	T _{stg}	$^{\circ}$				-55~	+150			
Junction temperature	Tj	$^{\circ}$				-55~	+150			

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HS2A	HS2B	HS2D	HS2F	HS2G	HS2J	HS2K	HS2M
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=2.0A	1.0		1.3		1.7			
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A, I _n =0.25A	50				75			
Maximum DC reverse current at	IRRM		T _a =25℃		5.0						
rated DC blocking voltage per diode @ VRM=VRRM	ואואזי	μA	T _a =100°C				10	00			

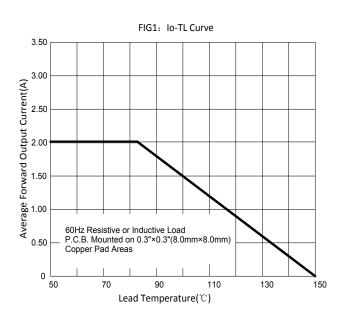
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

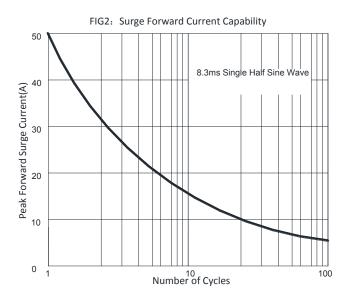
PARAMETER	SYMBOL	UNIT	HS2A	HS2B	HS2D	HS2F	HS2G	HS2J	HS2K	HS2M	
	RθJ-A(1)	°C/W	80 ¹⁾								
Thermal resistance	RθJ-L(1)	C/VV	20 ¹⁾								

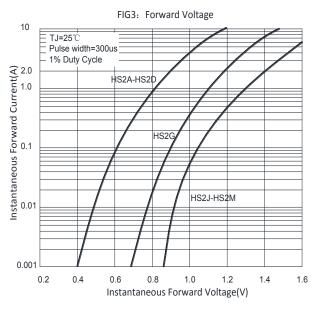
Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

■ Characteristics (Typical)







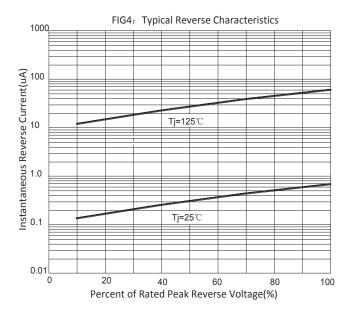
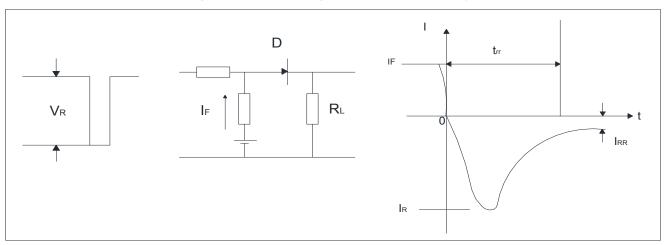




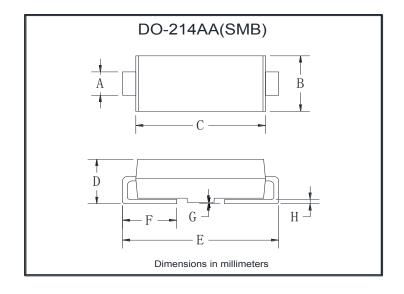
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

zordoring information (zwampie)								
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE		
HS2A-HS2M	F1	Approximate 0.096	3000	6000	48000	13" reel		
HS2A-HS2M	F2	Approximate 0.096	750	3000	24000	7" reel		
HS2A-HS2M	F3	Approximate 0.096	500	2000	16000	7" reel		

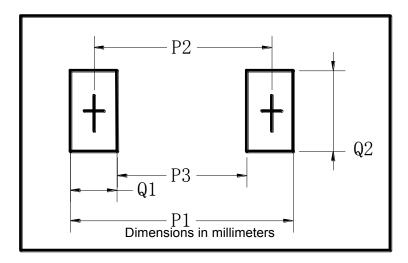
■ Outline Dimensions



DO-214AA(SMB)							
Dim	Min	Max					
Α	1.85	2.15					
В	3.30	3.94					
С	4.25	4.75					
D	1.99	2.61					
Е	5.21	5.59					
F	0.90	1.41					
G	0.10	0.20					
Н	0.15	0.31					



■ Suggested pad layout



DO-214AA(SMB)				
Dim	Millimeters			
P1	6.5			
P2	1.5			
P3	1.7			
Q1	2.5			
Q2	4.0			



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