# RUIL

## HS2AA THRU HS2MA

#### High Efficient Rectifier

#### Features

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

#### **Typical Application**

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

#### **Mechanical Data**

- Package: DO-214AC(SMA)
  Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- 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)

	0	Unit	Conditions	HS2							
PARAMETER	Symbol		Conditions	AA	BA	DA	FA	GA	JA	KA	MA
Repetitive Peak Reverse Voltage	Vrrm	V		50	100	200	300	400	600	800	1000
Average Forward Current	IF(AV)	А	60HZ Half-sine wave,Resistance load, TL=110°C	2.0							
Surge(Nonrepetitive)Forward Current	Ігѕм	А	60HZ Half-sine wave, 1 cycle , Ta=25°C	50							
Storage Temperature	Tstg	°C		-55 ~ +150							
Junction Temperature	Tj	°C		-55 ~ +150							

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

PARAMETER	Symbo	Unit	Conditions			HS2							
FARAIVIETER	I		Conditions		AA	BA	DA	FA	GA	JA	KA	MA	
Peak Forward Voltage	Vfm	V	Іғм =2.0А			1.0 1.3					1.7		
Peak Reverse Current	IRRM1		VRM=VRRM	<b>Ta=25</b> ℃	5.0								
	IRRM2	μA	VRM-VRRM	<b>Ta=100</b> ℃	100								
Maximum reverse recovery	Trr ns		I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>rr</sub> =	1 254	25.4		50			75			
time	111	115	IF-0.37, IK-1.07, Iff-0.237		50					75			
Thermal Resistance(Typical)	R <sub>0J-A</sub>	°C/W	Between junction and ambient			80 <sup>1)</sup>							
	R <sub>0J-L</sub>	0.111	Between junction and terminal			201)							

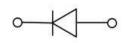
#### Notes:

1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



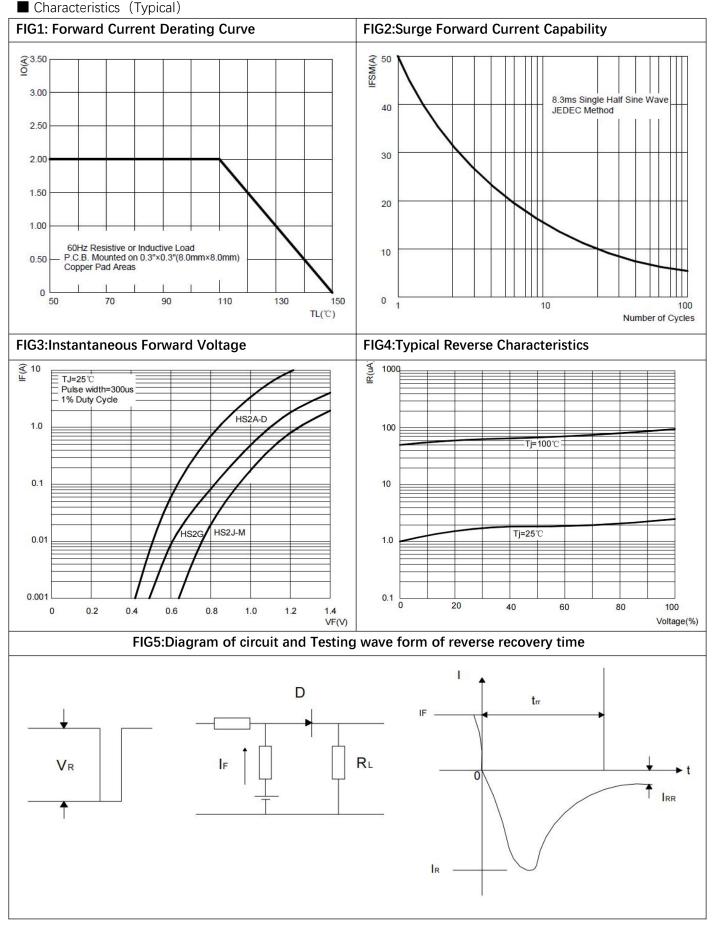






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Specifications are subject to change without notice. Please refer to http://www.ruilon.com.cn for current information.





### HS2AA THRU HS2MA

Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HS2AA THRU HS2MA	DO-214AC(SMA)	5000	10000	80000	13" reel
HS2AA THRU HS2MA	DO-214AC(SMA)	7500	15000	120000	13" reel

Outline Dimensions

