

HS5A THRU HS5M

High Efficient Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Ultra-fast reverse recovery time
- 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 rectification of power supply, 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
- 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)

DADAMETER	Symbol	Unit	0	HS5							
PARAMETER			Conditions	Α	В	D	F	G	J	K	М
Repetitive Peak Reverse Voltage	VRRM	٧		50	100	200	300	400	600	800	1000
Average Forward Current	l _{F(AV)}	Α	60HZ Half-sine wave,Resistance load, TL=110°C	5							
Surge(Nonrepetitive)Forward Current	Ігѕм	Α	60HZ Half-sine wave, 1 cycle , Ta=25°C	150							
Storage Temperature	Tstg	°C		-55 ~ + 150							
Junction Temperature	Tj	°C		-55 ~ + 150							

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

PARAMETER	Symbol	Unit	Conditions		HS5								
PARAMETER	Symbol	Onit	Condition	15	Α	В	D	F	G	J	K	M	
Peak Forward Voltage	VFM	V	I _{FM} =5.0A			1.0 1.3				1.7			
Peak Reverse Current	IRRM1		\/\/	Ta=25℃	10								
	IRRM2	μA	V _{RM} =V _{RRM}	Ta=100℃	250								
Maximum reverse recovery time	Trr	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A			50					75		
Thermal Resistance(Typical)	Rej-A °C/W		Between junction and	471)									
			Between junction and terminal		13 ¹⁾								

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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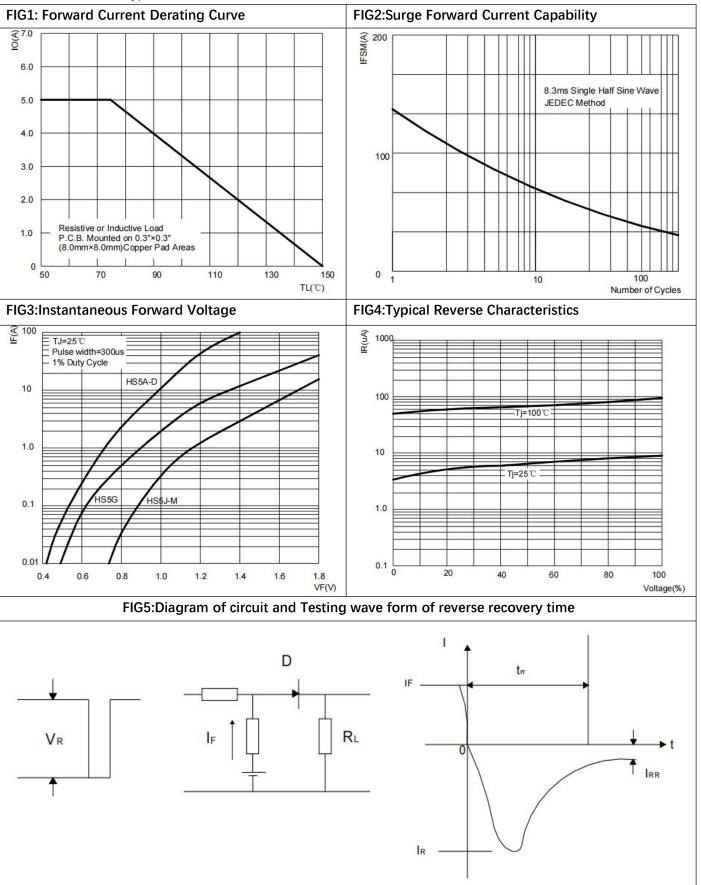






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■ Characteristics (Typical)



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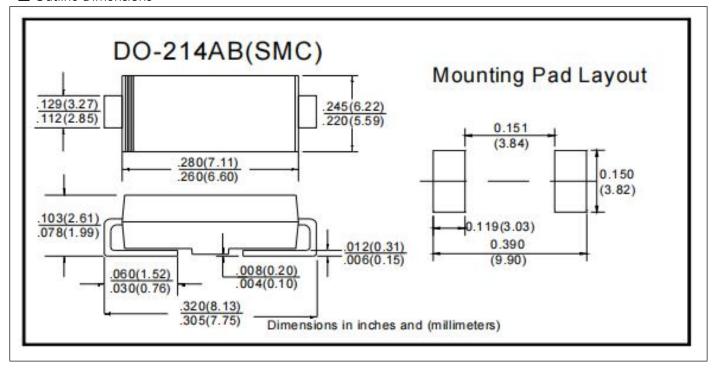


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE		INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
HS5A THRU HS5M	DO-214AB(SMC)	3000	6000	42000	13" reel	

■ Outline Dimensions



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