

HS3A THRU HS3M

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

For use in high frequency rectification of power supply,

inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

Typical Application

- 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)

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DADAMETED	Cumahal	11:4	Conditions	HS3							
PARAMETER	Symbol	Unit	Conditions		В	D	F	G	J	K	M
Repetitive Peak Reverse Voltage	VRRM	V		50	100	200	300	400	600	800	1000
Average Forward Current			60HZ Half-sin								
	I F(AV)	Α	wave,Resistance	3							
			load, TL=110°C								
Surge(Nonrepetitive)Forward			60HZ Half-sine wave, 1 cycle	100							
Current	IFSM	A	, Ta=25℃								
Storage Temperature	Tstg	°C		-55 ~ +150							
Junction Temperature	Ti	°C		-55 ~ +150							

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

PARAMETER	Symbo	Unit	Condition		HS3								
PARAIVIETER	Ī	Onit	Condition	15	A B D		D	F	G	J	K	M	
Peak Forward Voltage	VFM	V	IFM =3.0	A	1.0 1				.3	1.7			
Dook Doverso Coment	IRRM1		\/DN4-\/DDN4	Ta=25℃	10								
Peak Reverse Current	IRRM2	μA	VRM=VRRM	Ta=100℃			200						
Maximum reverse recovery	т		I _F =0.5A,I _R =1.0A,I _{II} =0.25A		L 0.54 L 4.04 L 0.054							7.5	
time	Trr	ns			50					75			
Thermal Resistance(Typical)	R өJ-A	°C/W	Between junction and ambient		471)								
	R ₀ J-L	[C/ VV	Between junction and terminal			13 ¹⁾							

Notes:

Revised: 2021-11-29



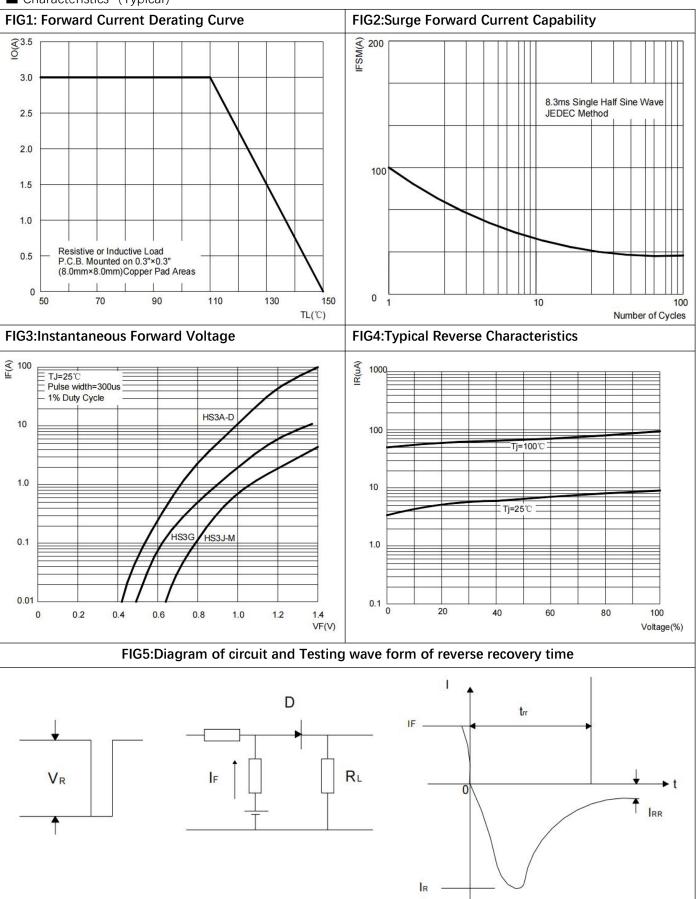


¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.



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■ Characteristics (Typical)



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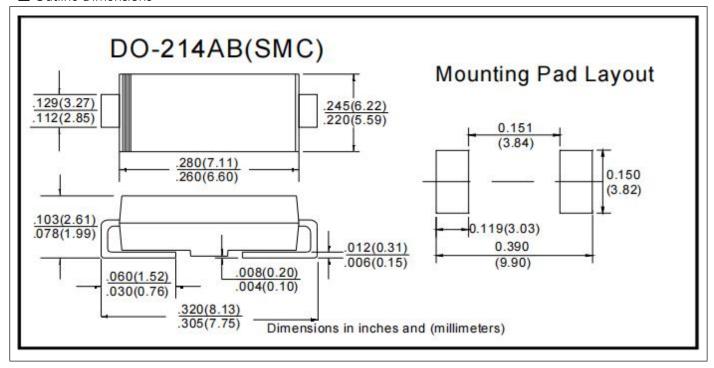


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE		INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HS3A~ HS3M	DO-214AB(SMC)	3000	6000	42000	13" reel

■ Outline Dimensions



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