

ES3A THRU ES3J

Super Fast Recovery Rectifier Diode

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Super 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.

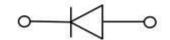


Package: DO-214AB(SMC)
 Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant

 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)

DADAMETED	Cumbal	l lmi4	Conditions			ES3					
PARAMETER	Symbol	Unit	Conditions	Α	В	С	D	F	G	Н	J
Repetitive Peak Reverse Voltage	VRRM	٧		50	100	150	200	300	400	500	600
Average Forward Current	I F(AV)	Α	60Hz Half-sine wave, Resistance load, TL=100℃	3.0							
Surge(Nonrepetitive)Forward Current	İFSM	Α	60HZ Half-sine wave, 1 cycle, Ta=25°C	100							
Storage Temperature	Tstg	°C		-55 ~ + 150							
Junction Temperature	Tj	°C		-55 ~ +150							

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

PARAMETER	Symbol	Unit	Conditio		ES3								
PARAMETER	Syllibol	Offic	Conditions		Α	В	С	D	F	G	Н	J	
Peak Forward Voltage	V _{FM}	V	I _F =3.0	A		0.95			1.3		1.7		
Peak Reverse Current	IRRM1		V _{RM} =V _{RRM}	Ta=25℃	10								
Peak Reverse Current	IRRM2	μA	VRM-VRRM	Ta=125℃	500					0			
Maximum reverse recovery time	Trr	ns	I _F =0.5A,I _R =1.0A,I _{ri}	35									
Thermal Resistance(Typical)	R өJ-A	°C 0.41	Between junction and ambient		471)								
	RøJ-L	°C/W	Between junction ar	12 ¹⁾									

Notes:

Revised: 2021-11-29



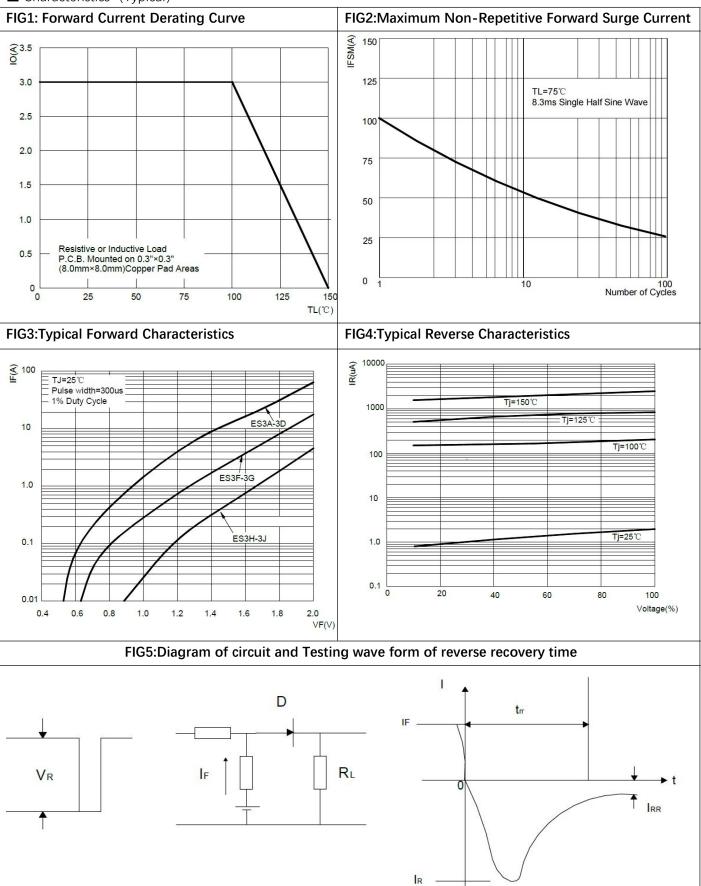


¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas



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■ Characteristics (Typical)



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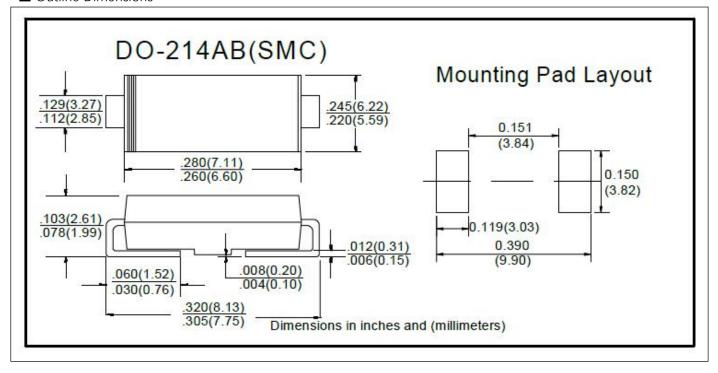


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■ Ordering Information (Example)

	PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
	ES3A~ES3J	DO-214AB(SMC)	3000	6000	42000	13" reel
ſ	ES3A~ES3J	DO-214AB(SMC)	500	1500	15000	7" reel

■ Outline Dimensions



Revised: 2021-11-29



