

ES5A THRU ES5J

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



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)

DADAMETED	Cumbal	l lmi4	Conditions	ES5							
PARAMETER	Symbol Unit Conditions		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, Ta=50℃	5.0							
Surge(Nonrepetitive)Forward Current	İFSM	Α	60HZ Half-sine wave, 1 cycle, Ta=25°C	120							
Storage Temperature	Tstg	°C		-55 ~ +150							
Junction Temperature	Tj	°C		-55 ~ +150							

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

DADAMETED	Cymphol	l lmi4	Conditio		ES5							
PARAMETER	Symbol	Unit	Condition	ons	A B C D F		G	Н	J			
Peak Forward Voltage	VFM	V	I _{FM} =5.0)A	0.95 1.3				1.7			
Darah Darama Communit	IRRM1		\/\/	Ta=25℃	10							
Peak Reverse Current	IRRM2	μA	V _{RM} =V _{RRM}	Ta=125℃	500							
Maximum reverse recovery time	Trr	ns	I _F =0.5A,I _R =1.0A,I _r	r=0.25A	35							
Thermal Resistance(Typical)	R өJ-A	°C /\\	Between junction and ambient			50¹)						
	R ₀ J-L	°C/W	Between junction and lead			15 ¹⁾						

Notes:

Revised: 2021-11-29



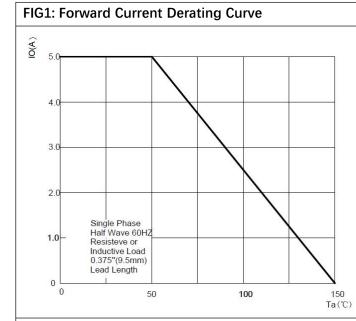


¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas



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■ Characteristics (Typical)



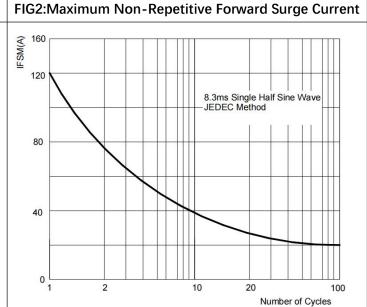


FIG3:Typical Forward Characteristics

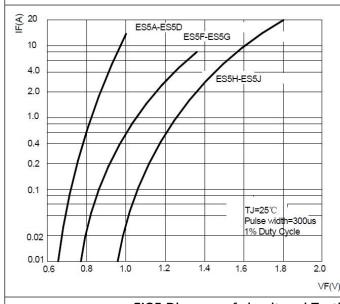


FIG4:Typical Reverse Characteristics

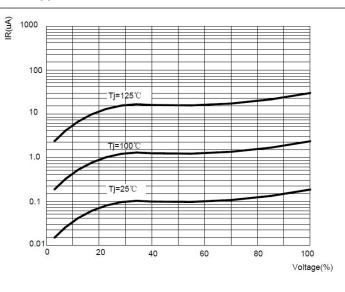
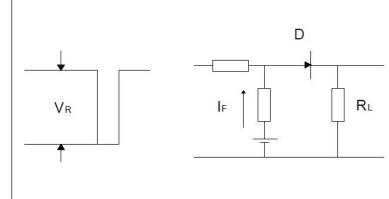
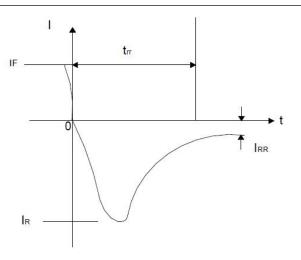


FIG5:Diagram of circuit and Testing wave form of reverse recovery time









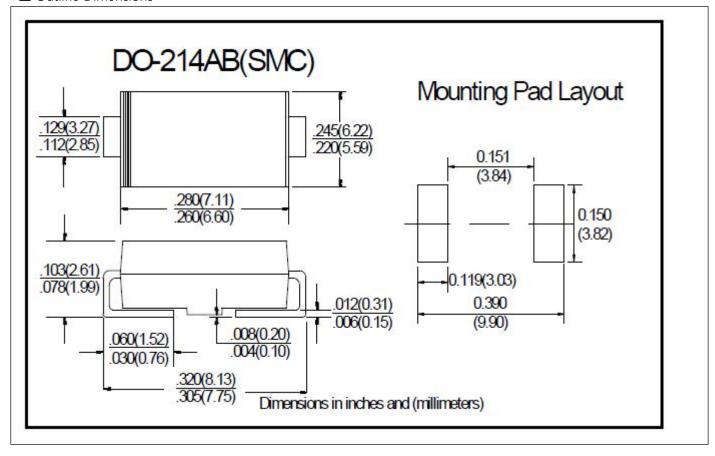


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE		INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE		
ES5A~ES5J	DO-214AB(SMC)	3000	6000	42000	13" reel		

■ Outline Dimensions



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