

### **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)

PARAMETER	Cymbol	Unit	Conditions	ES3							
PARAMETER	Symbol		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	lf(AV)	Α	60Hz Half-sine wave, Resistance load, TL=100℃	3.0							
Surge(Nonrepetitive)Forward Current	IFSM	Α	60HZ Half-sine wave, 1 cycle, Ta=25°C	100							
Storage Temperature	Tstg	°C		-55 ~ +150							
Junction Temperature	Tj	°C		-55 ~ <b>+</b> 150							

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

PARAMETER	Cumbal	Unit	Condition	ES3								
PARAMETER	Symbol		Conditions		Α	В	С	D	F	G	Н	J
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>F</sub> =3.0.	0.95			1.3		1.7			
Peak Reverse Current	IRRM1		\/\/	Ta=25℃	10							
	IRRM2	μA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=125℃	500							
Maximum reverse recovery time	Trr	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>r</sub>	35								
Thermal Resistance(Typical)	<b>R</b> өJ-A	°C/W	Between junction and amb		471)							
	RøJ-L	] C/VV	Between junction ar	12 <sup>1)</sup>								

Notes:

Revised: 2021-11-29



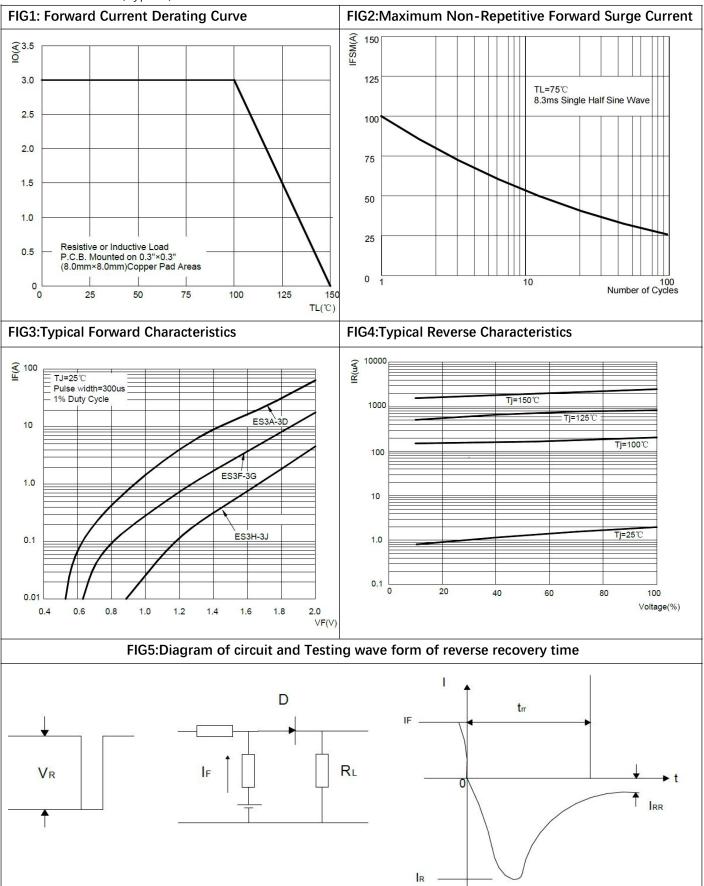


<sup>1)</sup> Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas



## **ES3A THRU ES3J**

#### ■ Characteristics (Typical)



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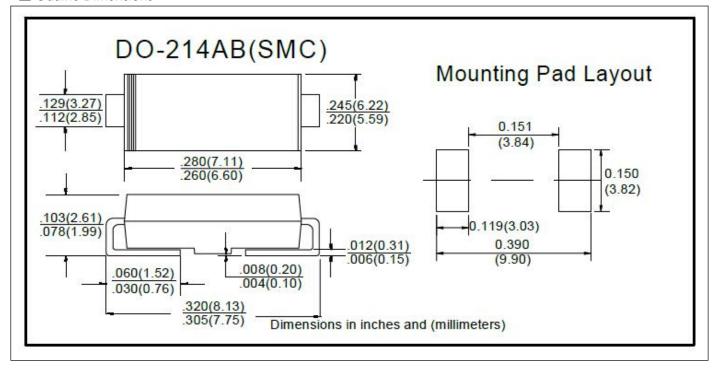


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#### ■ Ordering Information (Example)

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
ES3A~ES3J	DO-214AB(SMC)	500	1500	15000	7" reel

#### ■ Outline Dimensions



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