

### ES5A THUR ES5J Super-Fast Surface Mount Rectifiers

### **General description**

Super-Fast Surface Mount Rectifiers Reverse Voltage: 50 to 600V Forward Current:5.0A

SMC/DO214AB package

#### **FEATURES**

- · For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- · Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

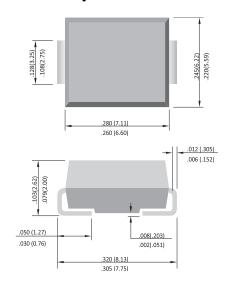
#### **MECHANICAL DATA**

• Case : SMC

Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.22g / 0.0077oz

# SMC/DO-214AB



Unit: inch (mm)

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### **Maximum Ratings & Thermal Characteristics**

Parameter	Symbols	ES5A	ES5B	ES5C	ES5D	ES5E	ES5G	ES5J	Units
Marking Code	Mark	ES5A	ES5B	ES5C	ES5D	ES5E	ES5G	ES5J	N/A
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T <sub>c</sub> = 100 °C	l <sub>F(AV)</sub>	5							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	İfsm	120						А	
Maximum Forward Voltage at 5 A	V <sub>F</sub>	1 1.25 1.68					1.68	V	
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Blocking Voltage $T_a = 125$ °C	I <sub>R</sub>	5 100							μΑ
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	Cj	50							pF
Maximum Reverse Recovery Time (1)	trr	35							ns
Typical Thermal Resistance (2)	Reja Rejc	35 13							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150							°C

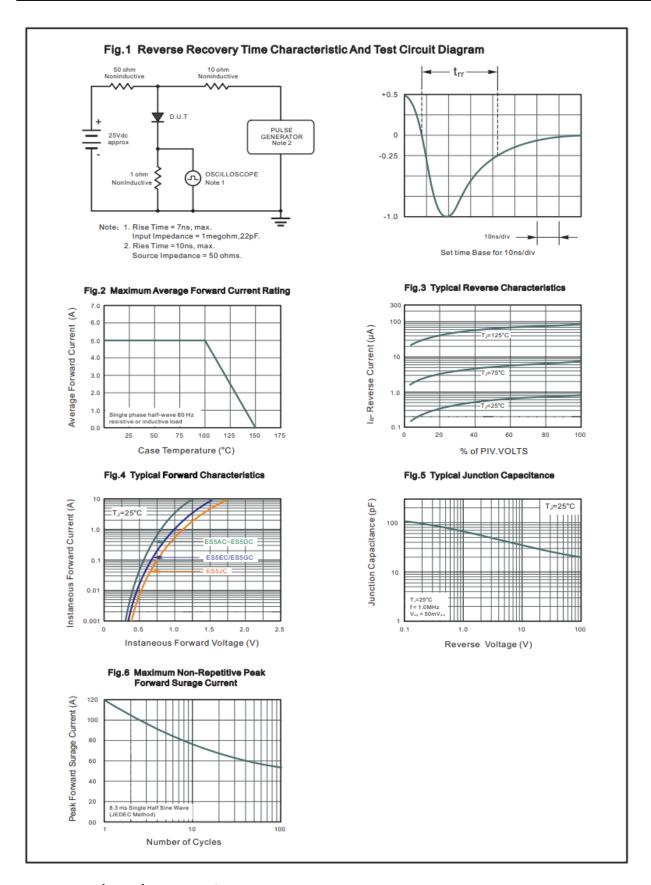
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

### **RATING AND CHARACTERISTIC CURVES**

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