ES5A THUR ES5J



ES5A THUR ES5J Super-Fast Surface Mount Rectifiers

General description

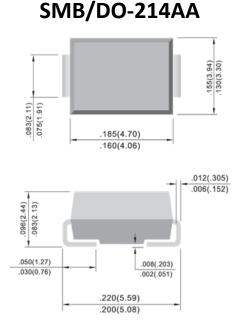
Super-Fast Surface Mount Rectifiers Reverse Voltage: 50 to 600V Forward Current:5.0A SMB/DO214AA package

FEATURES

- · Low profile package
- Built-in strain relief
- Easy pick and place
- Superfast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- Polarity: Indicated by cathode band.
- Weight: 0.003ounce, 0.093 gram



Unit: inch (mm)

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	ES5A	ES5B	ES5C	ES5D	ES5E	ES5G	ES5J	Unit
Marking Code	Mark	ES5A	ES5B	ES5C	ES5D	ES5E	ES5G	ES5J	N/A
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current $@T_L = 75^{\circ}C$	I _o	5.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100						А	
Forward Voltage $@I_F = 3.0A$	VFM	0.1 1.2				25	1.7	V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 100							μA
Reverse Recovery Time (Note 1)	trr	35							nS
Typical Junction Capacitance (Note 2)	Cj	50							pF
Typical Thermal Resistance (Note 3)	Rjl	45							°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150							°C

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

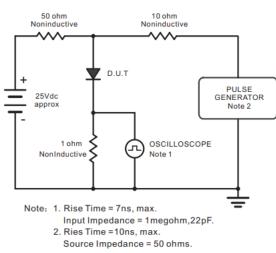
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RATING AND CHARACTERISTIC CURVES

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram





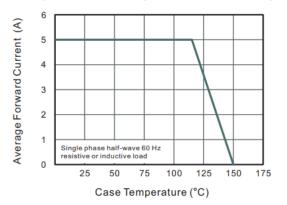
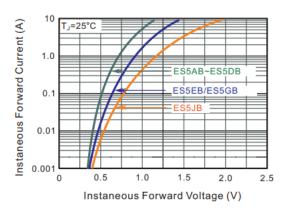


Fig.4 Typical Forward Characteristics



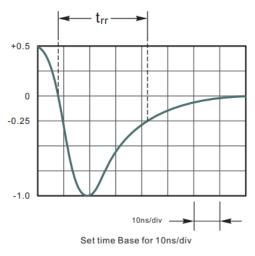


Fig.3 Typical Reverse Characteristics

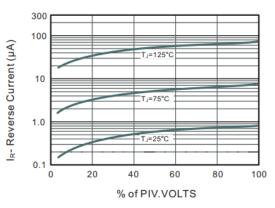
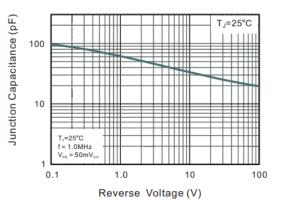


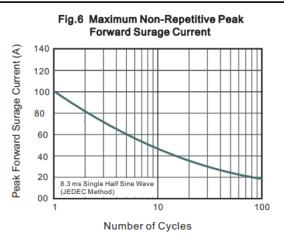
Fig.5 Typical Junction Capacitance



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