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

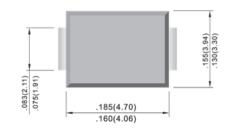
FEATURES

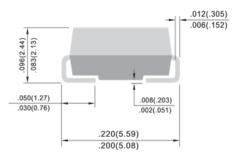
- Low profile package
- Built-in strain relief
- Easy pick and place
- · Superfast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O

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

SMB/DO-214AA





Unit: inch (mm)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ 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	٧
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _L = 75°C	Io	5.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	100						А	
Forward Voltage @I _F = 3.0A	VFM	0.1			1.25		1.7	V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	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

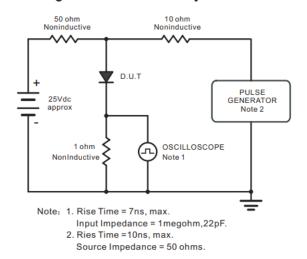
Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

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



RATING AND CHARACTERISTIC CURVES

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



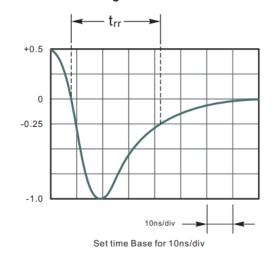


Fig.2 Maximum Average Forward Current Rating

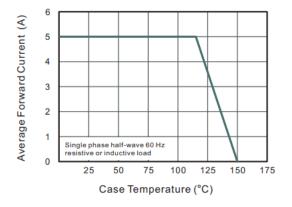


Fig.3 Typical Reverse Characteristics

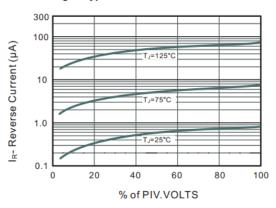


Fig.4 Typical Forward Characteristics

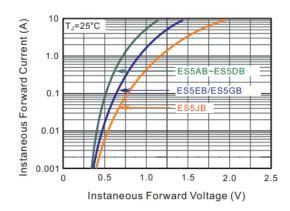
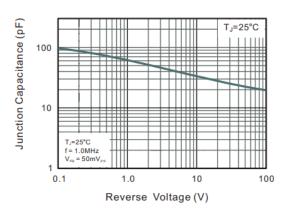


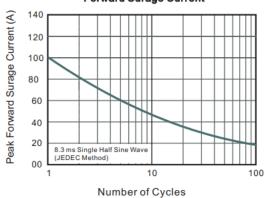
Fig.5 Typical Junction Capacitance



ES5A THUR ES5J



Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



ES5A THUR ES5J



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and hall not create or extend in any manner whatsoever, any liability of DOESHARE.