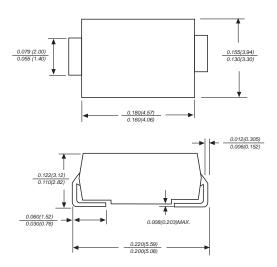
ES2A THRU ES2J SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Amperes

#### DO-214AA



Dimensions in inches and (millimeters)

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Super fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-214AA molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.005 ounce, 0.138 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

•								
SYMBOLS	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNITS
Vrrm	50	100	150	200	300	400	600	VOLTS
Vrms	35	70	105	140	210	280	420	VOLTS
VDC	50	100	150	200	300	400	600	VOLTS
l(AV)	2.0						Amps	
IFSM	50.0						Amps	
Vf		0.95		1.25		1.7	Volts	
lĸ	5.0 50.0					μΑ		
trr	35						ns	
CJ	60.0						pF	
Reja	40.0						°C/W	
Tj,Tstg	-65 to +150						°C	
	VRRM VRMS VDC I(AV) IFSM VF IR IR CJ R0JA	VRRM         50           VRMS         35           VDC         50           I(AV)	VRRM         50         100           VRMS         35         70           VDC         50         100           I(AV)	VRRM         50         100         150           VRS         35         70         105           VDC         50         100         150           Icar         50         50         100         150           Icar         50         50         50         50         50           Icar         50         50         50         50         50	VRRM         50         100         150         200           VRMS         35         70         105         140           VDC         50         100         150         200           I(AV)         50         100         150         200           IFSM         50         100         150         200           VF         0.95         50.0         50.0         50.0           VF         0.95         50.0         50.0         50.0           IR         50.0         50.0         50.0         50.0           R         60.0         50.0         50.0         50.0	VRRM         50         100         150         200         300           VRRS         35         70         105         140         210           VDC         50         100         150         200         300           VDC         50         100         150         200         300           I(AV)         2.0         100         150         200         300           I(AV)         2.0         50.0         100         150         100         150           VF         0.95         1.         50.0         1.         1.         1.           IR         50.0         50.0         1.         1.         1.         1.           R         50.0         50.0         1.         1.         1.         1.           R         50.0         50.0         1.         1.         1.         1.         1.           R         50.0         50.0         1.         1.         1.         1.           R         50.0         50.0         50.0         1.         1.         1.         1.           R         60.0         60.0         1.         1.         1.	VRRM         50         100         150         201	VRRM         50         100         150         2010         1011         1010         1010           VRRM         50         100         150         200         300         400         600           VRMS         35         70         105         140         210         280         420           VDC         50         100         150         200         300         400         600           I(AV)         200         200         300         400         600           I(AV)         2.0         2.0         300         400         600           I(AV)         2.0         50.0         1.25         1.7           IFSM         5.0         50.0         1.25         1.7           IR         50.0         50.0         50.0         1.25         1.7           Reja         40.0         40.0         40.0         40.0         40.0

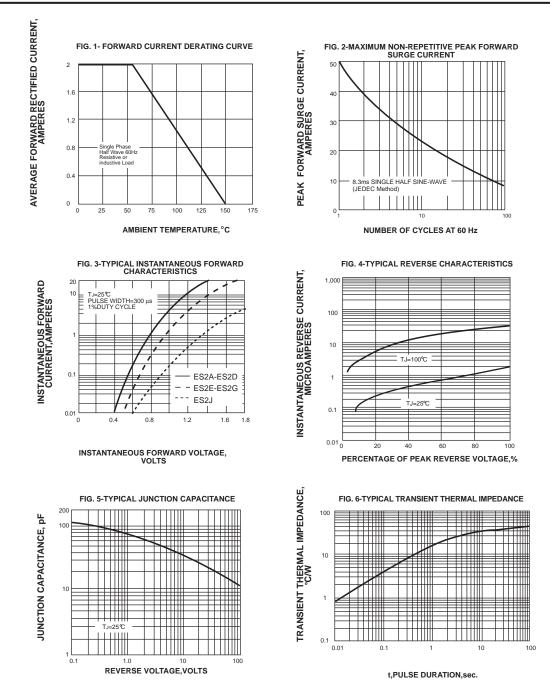
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



## **RATINGS AND CHARACTERISTIC CURVES ES2A THRU ES2J**





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