

ES2A THUR ES2J

ES2A THUR ES2J Super-Fast Surface Mount Rectifiers

General description

Super-Fast Surface Mount Rectifiers
Reverse Voltage: 50 to 600V
Forward Current: 2.0A
SMB/DO214AA package

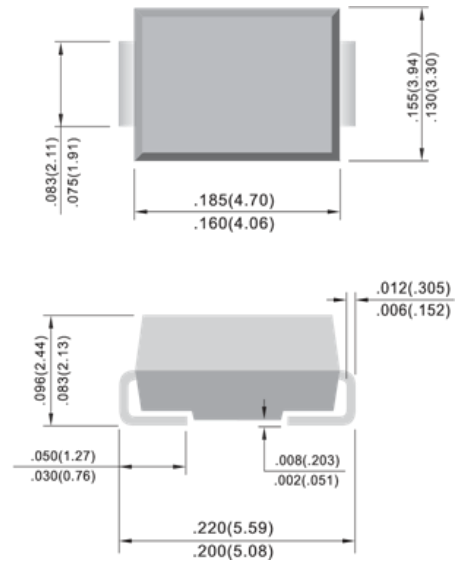
FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed
- 250 °C/10 seconds at terminal

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- 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 gram

SMB/DO-214AA



Unit: inch (mm)

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

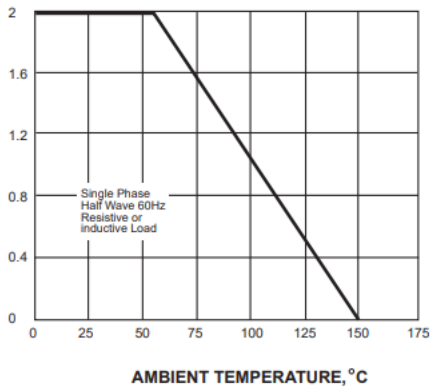
Characteristic	Symbol	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	Unit	
Marking Code	Mark	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	N/A	
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V	
Working Peak Reverse Voltage	V _{RWM}									
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	210	280	420	V	
Average Rectified Output Current @T _L = 75°C	I _o	2.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50								A
Forward Voltage @I _F = 3.0A	V _{FM}	0.95			1.25		1.7		V	
Peak Reverse Current @T _A = 25°C	I _{RM}	5.0								µA
At Rated DC Blocking Voltage @T _A = 100°C		50								
Reverse Recovery Time (Note 1)	t _{rr}	35								nS
Typical Junction Capacitance (Note 2)	C _j	60								pF
Typical Thermal Resistance (Note 3)	R _{JL}	40								°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150								°C

Note: 1. Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A

RATING AND CHARACTERISTIC CURVES

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

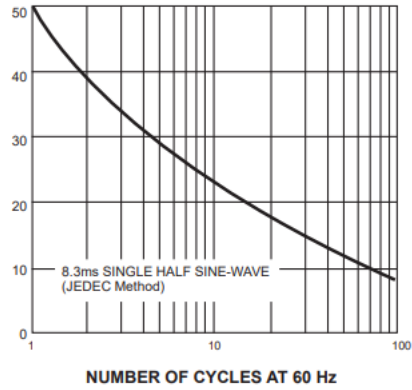
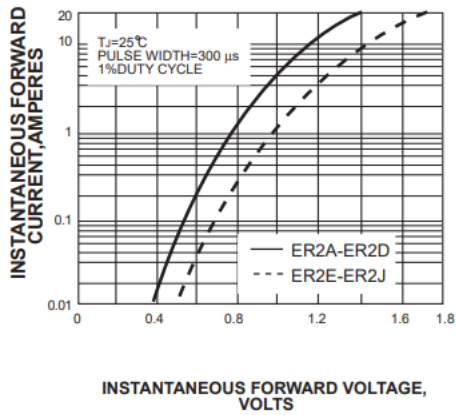


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

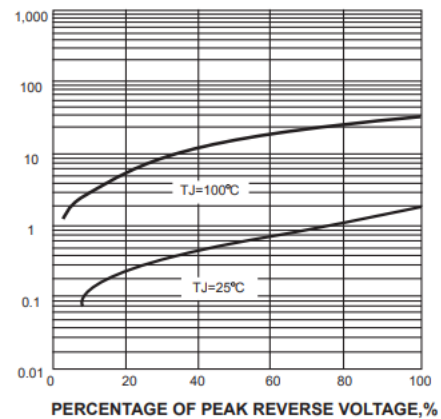
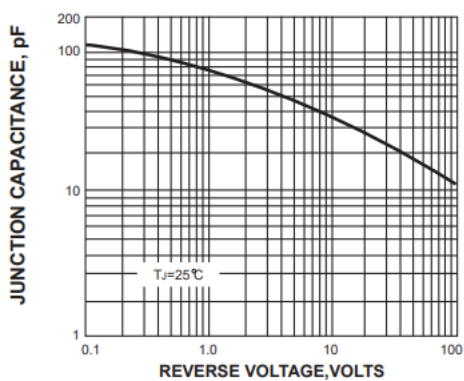
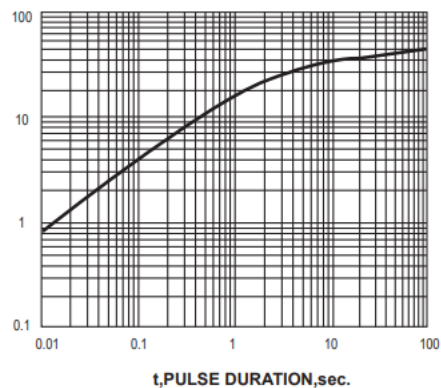


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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