

ES2A THRU ES2K

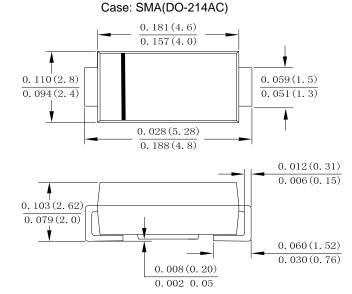
2.0AMP Surface Mount Glass Superfast Recovery Rectifier

Features

- · Low Power Loss, High Efficiency
- · Ideally Suited for Automatic Assembly
- · Guard Ring Die Construction
- Plastic Case Material has UL Flammability
 Classification Rating 94V- 0

Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- · Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	ES2A	ES2B	ES2D	ES2G	ES2J	ES2K	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	V
Average Rectified Output Current @T∟ =100 °C	IF(AV)	2.0						Α
Non-Repetitive Peak Forward Surge @T _{j=25} °C Current 8.3ms Single half sine-wave@T _{j=125} °C Superimposed On Rated Load (JEDEC Method)	Ігѕм	60 48						А
Non-Repetitive Peak Forward Surge @Tj=25 ℃ Current 1.0ms Single half sine-wave @Tj=125℃ Superimposed On Rated Load (JEDEC Method)	IFSM	120 96						Α
10000 times of the wave surge current (time width 1ms, time interval 3s)	lfsм	45						А
Rating for fusing (t<8.3ms)	l ² t	14.94						A ² s
Forward Voltage @IF=2.0A	V _{FM}	0.95			1.3	1.7	1.9	V
Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =125 °C	I _R	5.0 200						uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						ns
Typical Junction Capacitance (Note 2)	Сл	10						pF
Typical Thermal Resistance Junction to Ambient(Note 3)	Re JA	120						°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150						${\mathbb C}$

Note:

- 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

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AVERAGE FORWARD RECIFIED CURRENT (A)

0 25

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING 2.0 1.0

FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

Lead Temperature (°C)

75

100

125

150

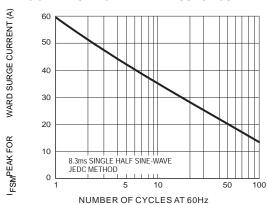
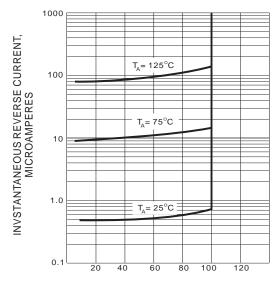


FIG.5TYPICAL REVERSE CHRACTERISTICS



PERCENT OF RATED PEAK INVERSE VOLTGE

FIG.2TYPICAL FORWARD CHARACTERISTICS

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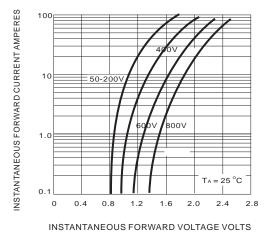
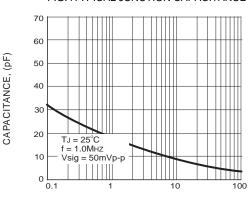


FIG.4TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, (V)

SMA PAD LAYOUT 5.0000 1.4000 -1.5000

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