

ES2A THRU ES2K

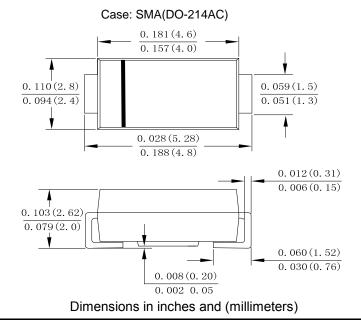
2.0AMP Surface Mount Glass Superfast Recovery Rectifier

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



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	VRRM	50	100	200	400	600	800	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	V
Average Rectified Output Current @T _L =100 °C	IF(AV)	2.0						А
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)	Ifsm	60 48						A
Non-Repetitive Peak Forward Surge @Tj=25 °C Current 1.0ms Single half sine-wave @Tj=125°C Superimposed On Rated Load (JEDEC Method)	Ifsm	120 96						А
10000 times of the wave surge current (time width 1ms, time interval 3s)	IFSM	45						А
Rating for fusing (t<8.3ms)	l ² t	14.94						A²s
Forward Voltage @IF=2.0A	VFM	0.95		1.3	1.7	1.9	V	
Peak Reverse Current @T₄ =25 ℃ At Rated DC Blocking Voltage @T₄ =125 ℃	- I _R	5.0 200						uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						ns
Typical Junction Capacitance (Note 2)	CJ	10						pF
Typical Thermal Resistance Junction to Ambient(Note 3)	R0 JA	120						℃/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150						°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.



FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

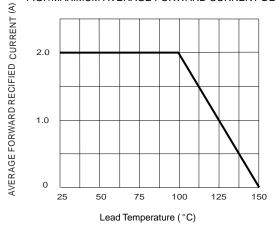


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

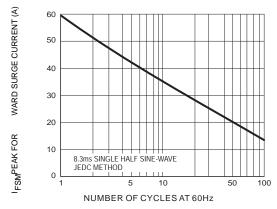
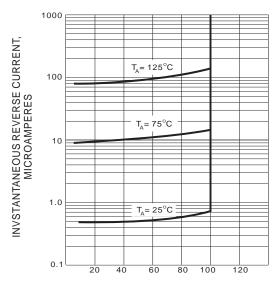
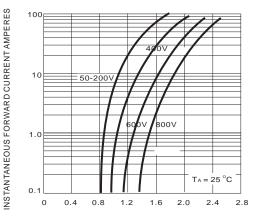


FIG.5TYPICAL REVERSE CHRACTERISTICS



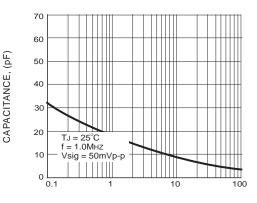
PERCENT OF RATED PEAK INVERSE VOLTGE

FIG.2TYPICAL FORWARD CHARACTERISTICS



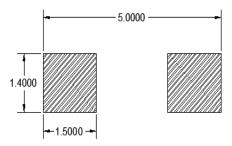
INSTANTANEOUS FORWARD VOLTAGE VOLTS

FIG.4TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, (V)

SMA PAD LAYOUT





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