## Surface Mount Super Fast Glass Passivated Rectifer





#### **Features**

- · Super fast switching time for high efficiency
- · Low forward voltage drop and high current capability
- · Low reverse leakage current
- · Plastic material has UL flammability classification 94V-0

#### **Mechanical Data**

Case : Molded Plastic

Polarity : Colour band denotes cathode Weight : 0.003 ounces, 0.053 grams

Mounting Position : Any
Reverse Voltage : 200 Volts
Forward Current : 2 Amperes

### **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%

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	200	
Max. RMS Voltage	VRMS	140	V
Max. DC Blocking Voltage	VDC	200	] [
Max. Average Forward Rectified Current @TA = 50°C	I(AV)	2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	50	
Peak Forward Voltage at 2A DC	VF	0.95	V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lR	5 100	μА
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical Junction Capacitance (Note 2)	Сл	40	pF
Typical Thermal Resistance (Note 3)	Reja	25	°C/W
Operating Temperature Range	TJ	-55 to +150	- °C
Storage Temperature Range	Тѕтс	-55 to +150	

Notes: 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A

- 2. Measured at 1MHz and applied reverse voltage of 4V DC
- 3. Thermal resistance junction to lead
- 4. The typical data above is for reference only

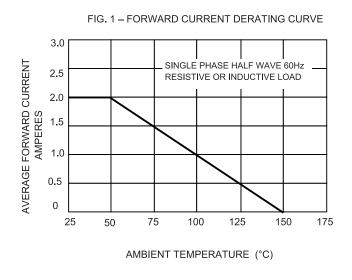
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### **Rating and Characteristic Curves**



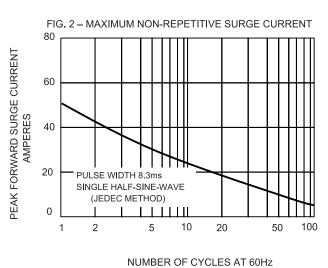


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

100

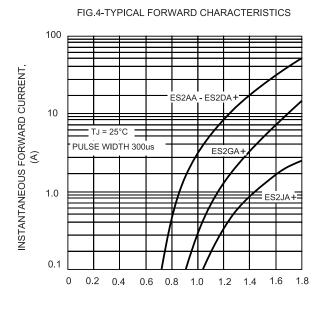
ES2AA - ES2DA +

ES2GA - ES1JA +

TJ = 25°C f = 1MHz

1.0

REVERSE VOLTAGE ,VOLTS

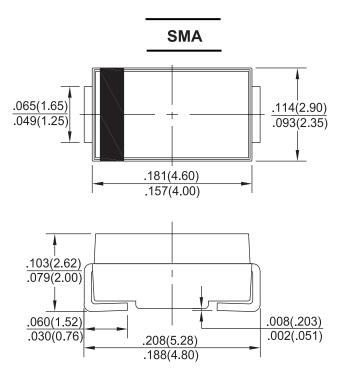


INSTANTANEOUS FORWARD VOLTAGE ,VOLTS

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### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number	
Super Fast Diode 2A, 200V SMA	ES2DA+	

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