# 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, 0.093 grams

Mounting Position : Any

Reverse Voltage : 50 to 600 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	ES2A+	ES2B+	ES2D+	ES2G+	ES2J+	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	V
Max. RMS Voltage	VRMS	35	70	140	280	420	V
Max. DC Blocking Voltage	VDC	50	100	200	400	600	V
Max. Average Forward Rectified Current @T <sub>A</sub> = 50°C	I(AV)			2			А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM			50			А
Peak Forward Voltage at 2A DC	VF		0.95		1.3	1.7	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)	CJ	40 30		0	pF		
Typical Thermal Resistance (Note 3)	Rejl	25			°C/W		
Operating Temperature Range	TJ	-55 to +150			°C		
Storage Temperature Range	Tstg	-55 to +150				°C	

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

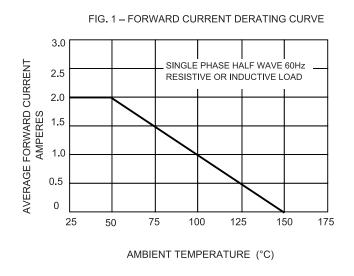
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### **Rating and Characteristic Curves**



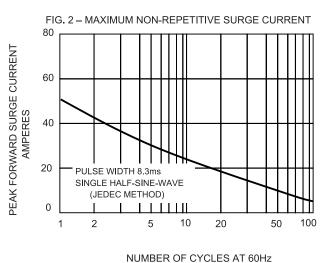


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

100

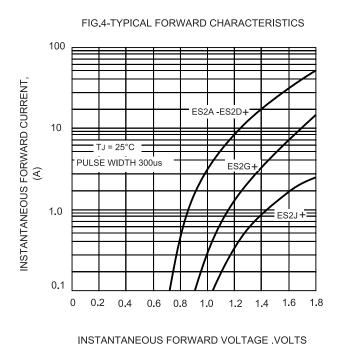
ES2A - ES2D+

ES2G- ES1J+

TJ = 25°C f = 1MHz

1.0

REVERSE VOLTAGE ,VOLTS



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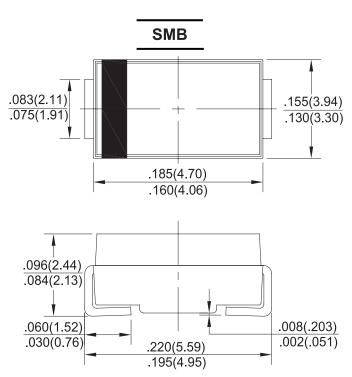


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### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number		
	ES2A+		
	ES2B+		
Surface Mount Super Fast Glass Passivated Rectifers	ES2D+		
Glass Fassivated Rectilers	ES2G+		
	ES2J+		

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