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 : 0.007 ounces, 0.093 grams

Mounting Position : Any
Forward Current : 3 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	ES3BB+	ES3DB+	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	100	200	V
Max. RMS Voltage	VRMS	70	140	V
Max. DC Blocking Voltage	VDC	100	200	V
Max. Average Forward Rectified Current @TA = 50°C	I(AV)	3		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	100		А
Peak Forward Voltage at 3A DC	VF	0.95		V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lR	5 100		μA
Maximum Reverse Recovery Time (Note 1)	Trr	35		nS
Typical Junction Capacitance (Note 2)	Cı	70		pF
Typical Thermal Resistance (Note 3)	Rejl	20		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-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

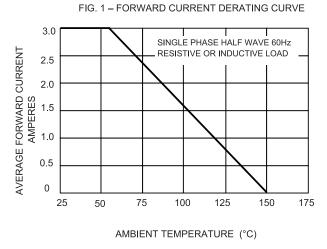
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Rating and Characteristic Curves



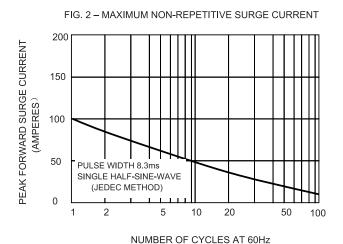
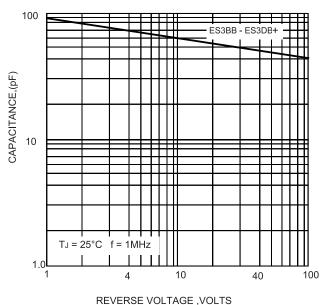
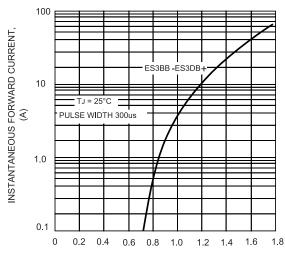


FIG. 3 - TYPICAL JUNCTION CAPACITANCE





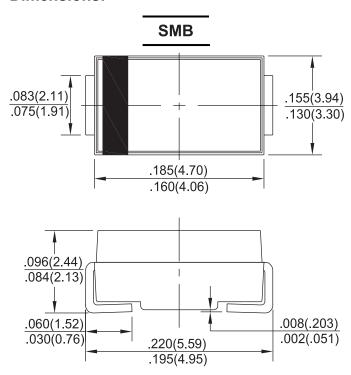


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Surface Mount Super Fast Glass Passivated Rectifer



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
Super Fast Diode, 3A 100V SMB	ES3BB+		
Super Fast Diode, 3A 200V SMB	ES3DB+		

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