



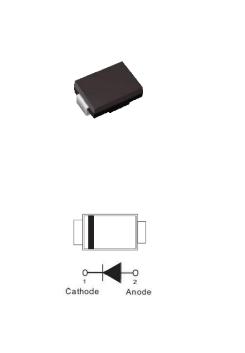
# Surface Mount Super Fast Recovery RectifierVoltage600 VCurrent3 A

#### Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Low leakage
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **Mechanical Data**

- Case : SMB Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0032 ounces, 0.092 grams



SMB

#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V	
Maximum Rms Voltage	V <sub>RMS</sub>	420	V	
Maximum Dc Blocking Voltage	VDC	600	V	
Maximum Average Forward Current	IF(AV)	3	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	Іғѕм	100	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_B = 4 V$	CJ	28	pF	
Typical Thermal Resistance <sup>(Note 1)</sup>	R <sub>0JA</sub>	135	°C/W	
	R <sub>eJC</sub>	21		
Operating Junction Temperature Range	TJ	-55~175	٥C	
Storage Temperature Range	T <sub>STG</sub>	-55~175	°C	



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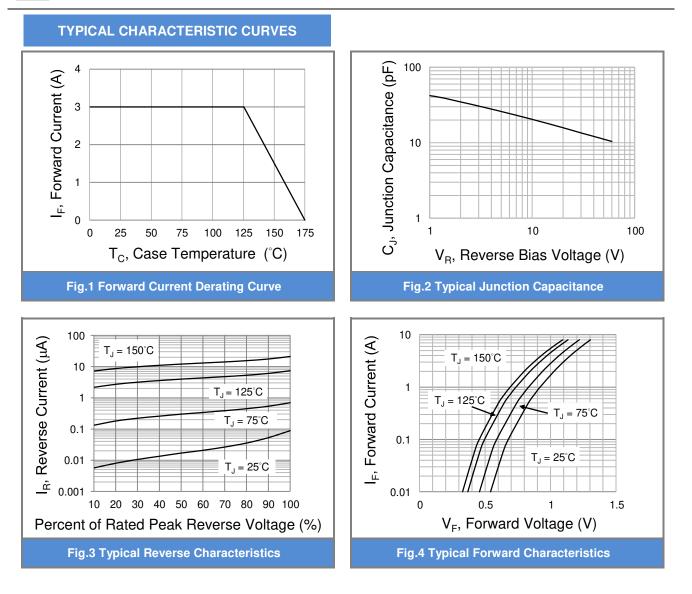
### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.92	-	V	
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 25 °C	-	1.03	-		
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 25 °C	-	-	1.25		
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.74	-		
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 125 °C	-	0.84	-		
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 125 °C	-	0.92	-		
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 25 °C	-	-	5	uA	
		V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 125 °C	-	8	-		
Reverse Recovery Time <sup>(Note 2)</sup>	T <sub>RR</sub>		-	-	50	ns	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 2. Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1A$  Irr=0.25A



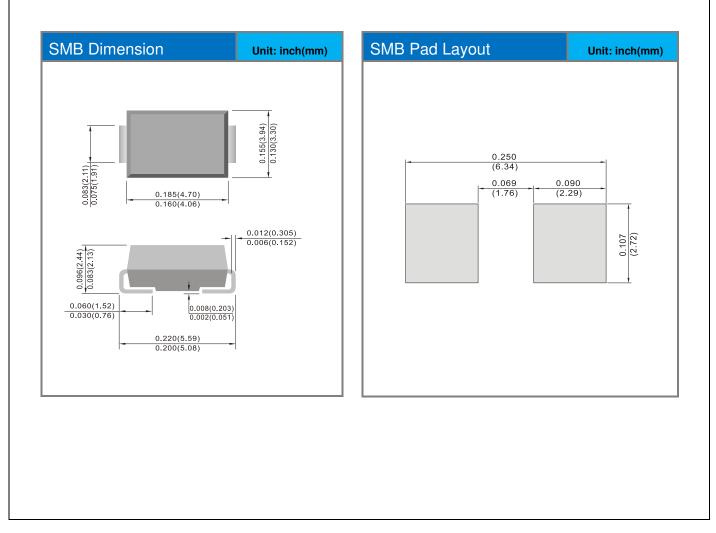




### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MURB3JG_R1_00001	SMB	0.8K pcs / 7" reel	MUB3JG	Halogen free

### Packaging Information & Mounting Pad Layout





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