## Surface Mount Rectifier

# multicomp

**RoHS** 

**Compliant** 



#### Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Ultra-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### **Mechanical Data**

Case	: SMB/DO-214AA, Molded Plastic
Terminals	: Solder Plated, Solderable per MIL-STD-750, Method 2026
Polarity	: Cathode Band or Cathode Notch
Forward Current	: 1 Amperes
Marking	: Type Number
Weight	: 0.093 grams(approx)

### **Maximum Ratings and Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

Characteristics	Symbol	MURS120+	MURS160+	Units
Peak Repetitive Reverse Voltage	Vrrm	200	600	- V
Working Peak Reverse Voltage	Vrms	200	600	
DC Blocking Voltage	VR	200	600	
RMS Reverse Voltage	VR(RMS)	140	420	
Average Rectified Output Current @ T∟ = 90°C	lo		1	
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	40	35	A
Forword Voltage @I⊧ = 1A	VF	0.875	1.25	V
Maximum Reverse Current at Rated $T_A = 25^{\circ}C$ DC Blocking Voltage $T_A = 125^{\circ}C$	lr	2 250	5 250	μA
Reverse Recovery Time (Note1)	trr	25	50	ns
Typical Junction Capacitance(Note2)	Сл	13		pF
Typical Thermal Resistance(Note3)	Reja	15		W/°C
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Tstg			

#### Note:

- 1. Measured With IF=0.5A, IR=1.0A, Irr=0.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4V DC.
- 3. Mounted on P.C. Board with 8mm<sup>2</sup> land area.
- 4. The typical data above is for reference only

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### **Rating and Characteristic Curves**

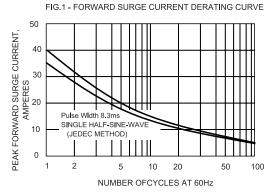
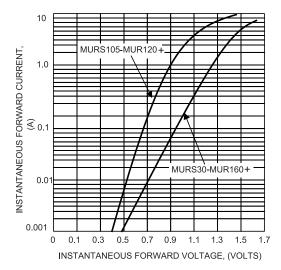


FIG.3-TYPICAL FORWARD CHARACTERISTICS



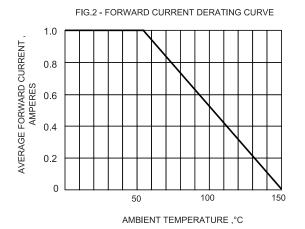


FIG.4-TYPIACL JUNCTION CAPACITANCE

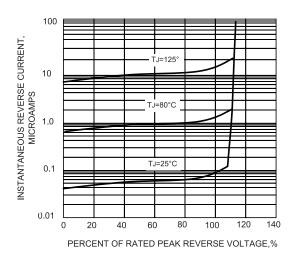
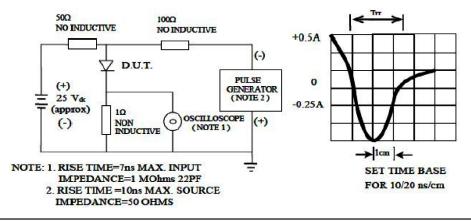


FIG.5 - REVERSE RECOVERY TIME CHARACTERISTIC ANG TEST CIRCUIT



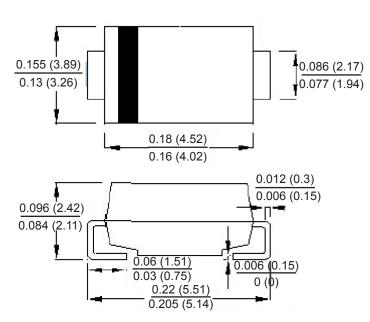
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### **Dimensions:**

#### SMB/DO-214AA



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number		
Rectifiers, 1A 200V SMB	MURS120+		
Rectifiers, 1A 600V SMB	MURS160+		

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