

#### **Features**

- Low power loss
- Ultra-fast recovery time for high efficiency
- Glass passivated chip junction
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C



For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer ,computer and telecommunication.

### **Mechanical Data**

- Package: DO-214AC (SMA)
   Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end





■ Maximum Ratings (Ta=25°C Unless otherwise specified)

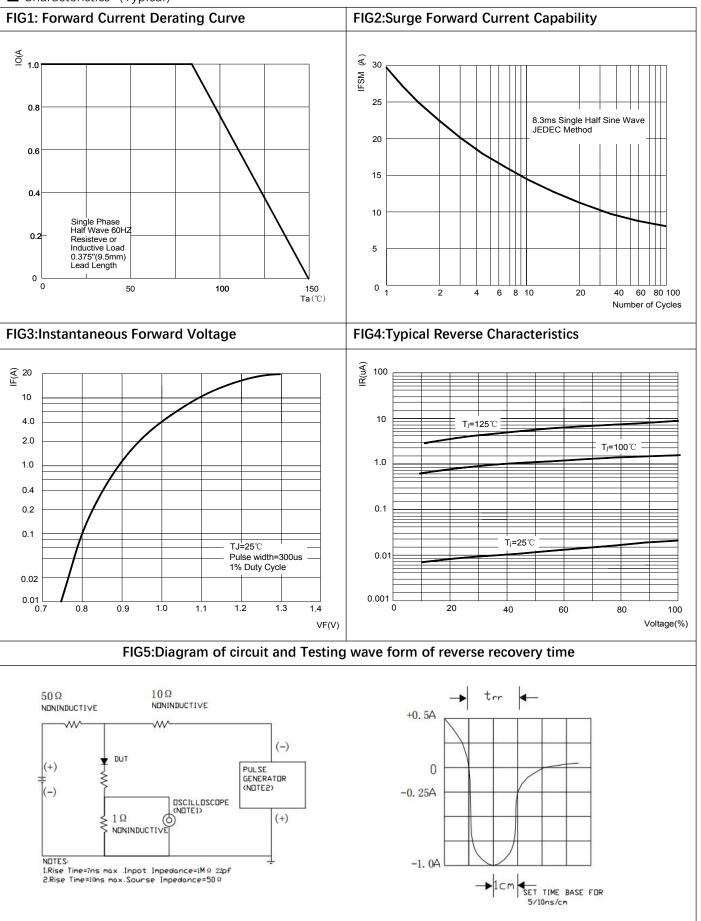
PARAMETER	Symbol	Unit	Conditions	MUR120SA
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		200
Average Forward Current	I <sub>F(AV)</sub>	Α	Ta=25℃	1.0
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	Ta=25°C A 60Hz Half-sine wave,1 cycle, Ta=25°C		30
Storage Temperature	T <sub>stg</sub>	$^{\circ}$		-55 ~ +150
Junction Temperature	Tj	$^{\circ}$		-55 ~ +150

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Condition		MUR120SA	
Peak Forward Voltage	V <sub>FM</sub>	V	IF=1.0A		0.9	
Peak Reverse Current	I <sub>RRM1</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25℃	5.0	
	I <sub>RRM2</sub>			Ta=125℃	300	
Reverse Recovery time	Trr	ns	I F =0.5A I R =1AI RR =0.25A		25	
Thermal Resistance(Typical)	R <sub>θJ-L</sub>	°C/W	Between junction and ambient		24	
Typical junction capacitance	C:	pF	Measured at 1MHZ and Applied		25	
	Cj		Reverse Voltage of 4.0 V.D.C		25	
Non repetitive reverse avalanche	ER	mJ	I(BR)R = 0.7 A, inductive load		10	
energy						



### ■ Characteristics (Typical)

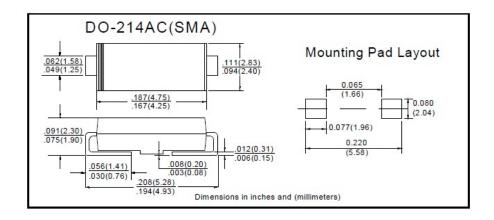




## ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR120SA	DO-214AC(SMA)	5000	10000	80000	13" reel
MUR120SA	DO-214AC(SMA)	7500	15000	120000	13" reel

### **■ Outline Dimensions**





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