

Ultra-Fast Recovery Rectifier Diodes FRED

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

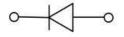


For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer ,computer and telecommunication.



- 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)

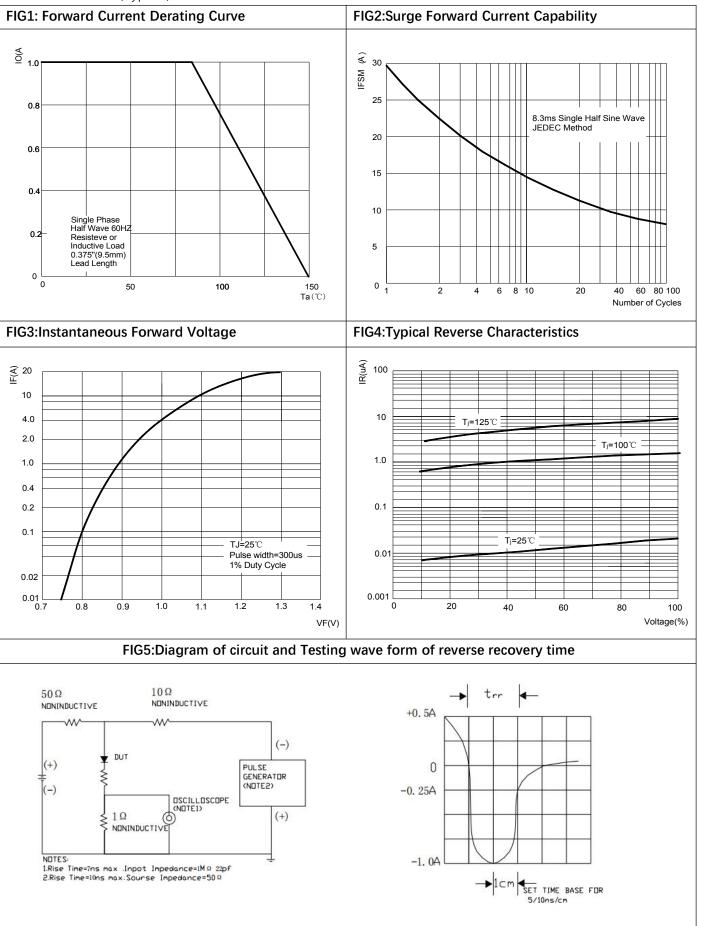
PARAMETER	Symbol	Unit	Conditions	MUR120SA
Repetitive Peak Reverse Voltage	V_{RRM}	V		200
Average Forward Current	I _{F(AV)}	Α	Ta=25℃	1.0
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	Ta=25℃ 60Hz Half-sine wave,1 cycle, Ta=25℃	30
Storage Temperature	T _{stg}	$^{\circ}$		-55 ~ + 150
Junction Temperature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

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

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

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■ Characteristics (Typical)



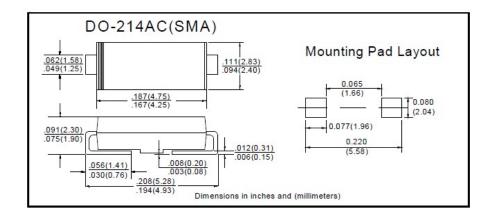


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■ Ordering Information (Example)

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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