

## Features

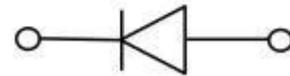
- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Super fast reverse recovery time
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C

## Typical Application

For use in high frequency rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

## Mechanical Data

- Package: DO-214AB(SMC)  
Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end



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

PARAMETER	Symbol	Unit	Conditions	MUR540S	MUR560S
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		400	600
Average Forward Current	I <sub>O</sub>	A	Half-sine wave, Resistance load, Tc(Fig.1)	5.0	
Surge(Nonrepetitive)Forward Current	I <sub>FSM</sub>	A	60HZ sine wave, 1 cycle, Ta=25°C	150	
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +150	
Junction Temperature	T <sub>j</sub>	°C		-55 ~ +150	

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

PARAMETER	Symbol	Unit	Conditions	MUR440S	MUR560S
Peak Forward Voltage	V <sub>FM</sub>	V	@I <sub>F</sub> =5A	1.30	
Peak Reverse Current	I <sub>RRM1</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25°C	10
	I <sub>RRM2</sub>			Ta=125°C	250
Maximum reverse recovery time	T <sub>rr</sub>	ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A	50	
Thermal Resistance	R <sub>θJ-L</sub>	°C/W	Between junction and terminal	12	

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

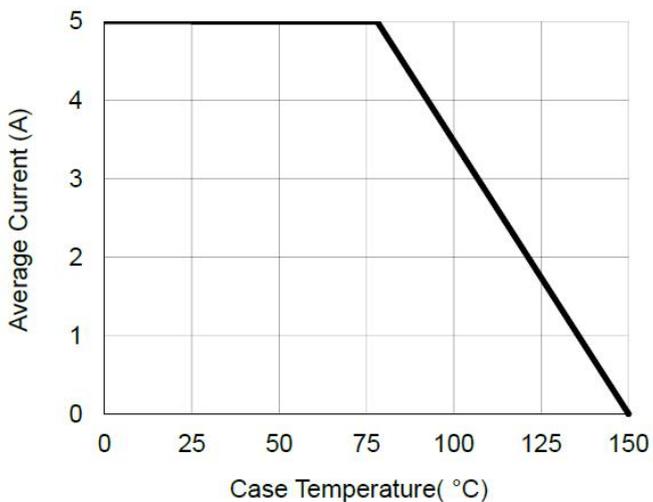


FIG2: Surge Forward Current Capability

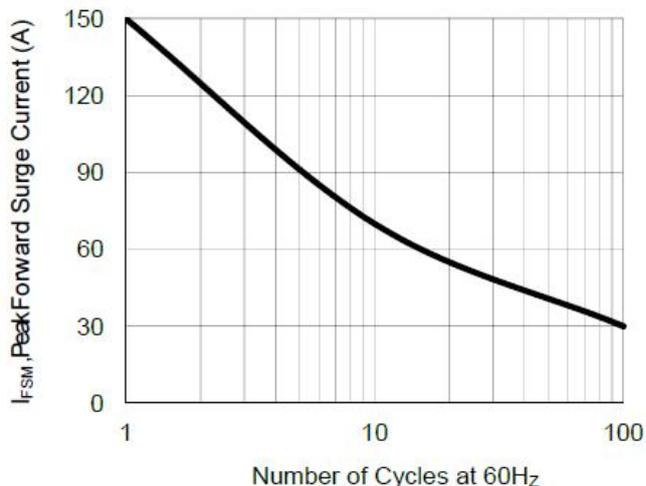


FIG3: Instantaneous Forward Voltage

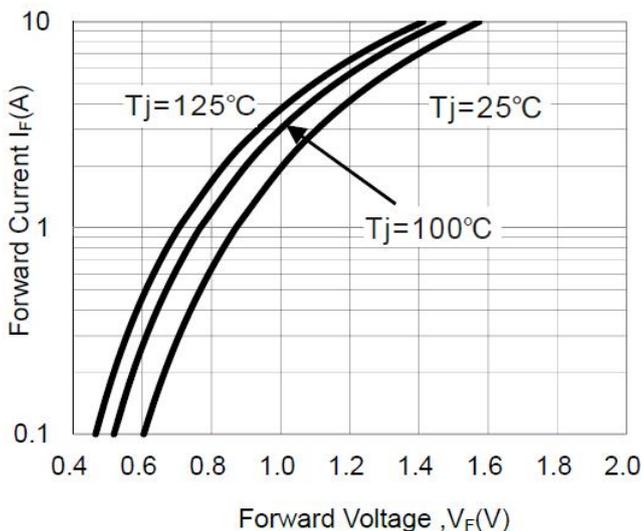


FIG4: Typical Reverse Characteristics

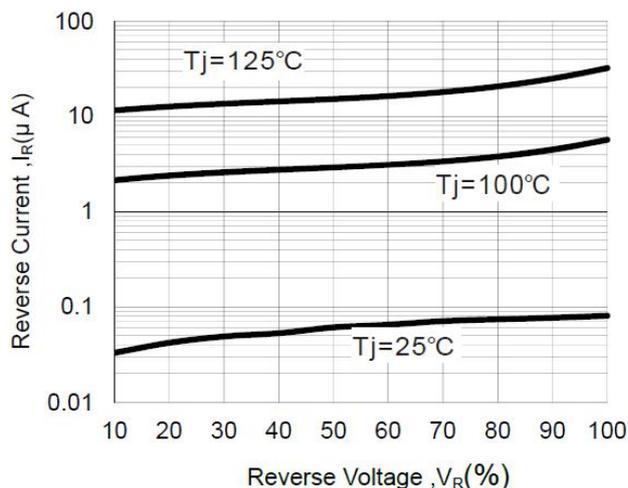
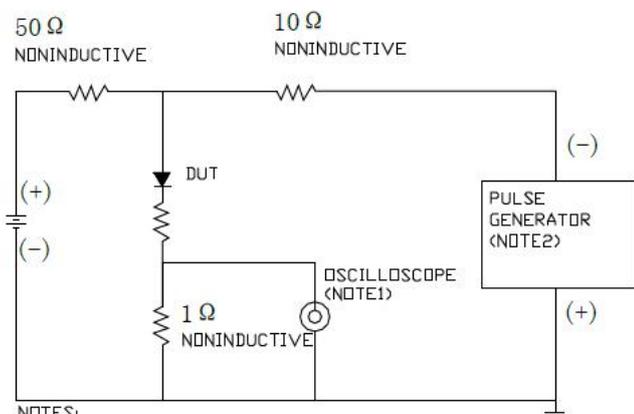
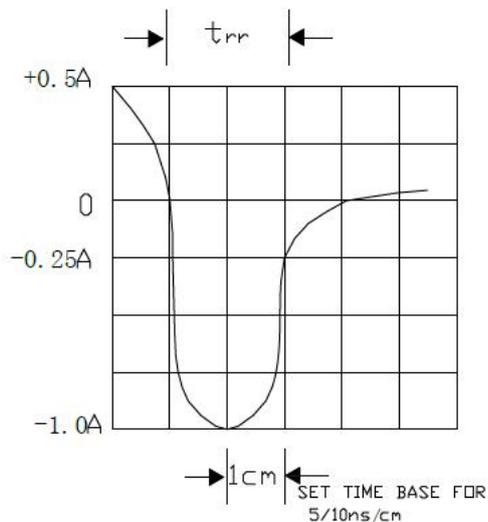


Diagram of circuit and Testing wave form of recovery time



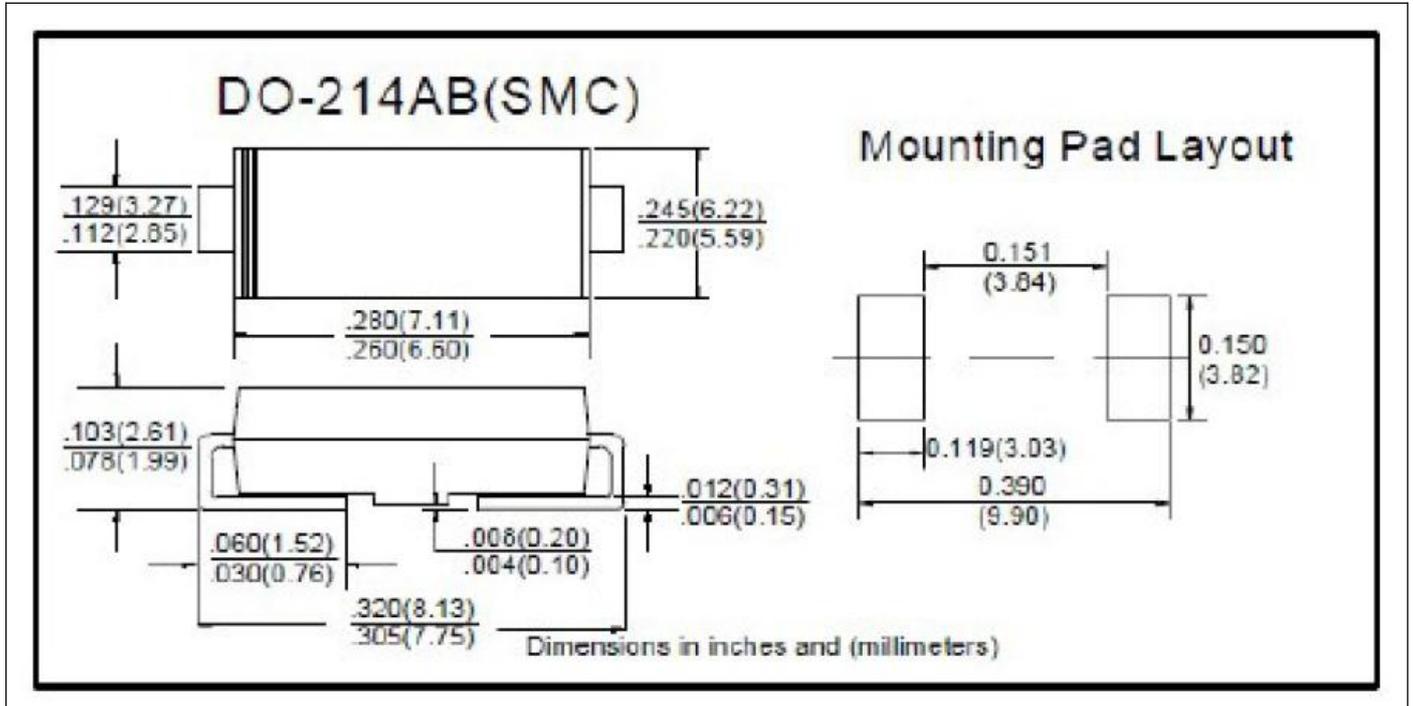
NOTES:  
1. Rise Time=7ns max. Input Impedance=1MΩ 22pf  
2. Rise Time=10ns max. Source Impedance=50Ω



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR540S~MUR560S	DO-214AB(SMC)	3000	6000	42000	13" reel

■ Outline Dimensions



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