

Features

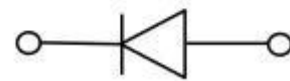
- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Super fast reverse recovery time
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C

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	MUR440S	MUR460S
Repetitive Peak Reverse Voltage	V _{RRM}	V		400	600
Average Forward Current	I _O	A	Half-sine wave, Resistance load, T _c (Fig.1)	4.0	
Surge(Nonrepetitive)Forward Current	I _{FSM}	A	60HZ sine wave, 1 cycle, Ta=25°C	125	
Storage Temperature	T _{stg}	°C		-55 ~ +150	
Junction Temperature	T _j	°C		-55 ~ +150	

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

PARAMETER	Symbol	Unit	Conditions	MUR440S	MUR460S
Peak Forward Voltage	V _{FM}	V	@I _F =3A	1.25	
			@I _F =4A	1.3	
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	Ta=25°C	10
	I _{RRM2}			Ta=125°C	250
Maximum reverse recovery time	T _{rr}	ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	50	
Thermal Resistance	R _{θJ-L}	°C/W	Between junction and terminal	12	



FIG1: Forward Current Derating Curve

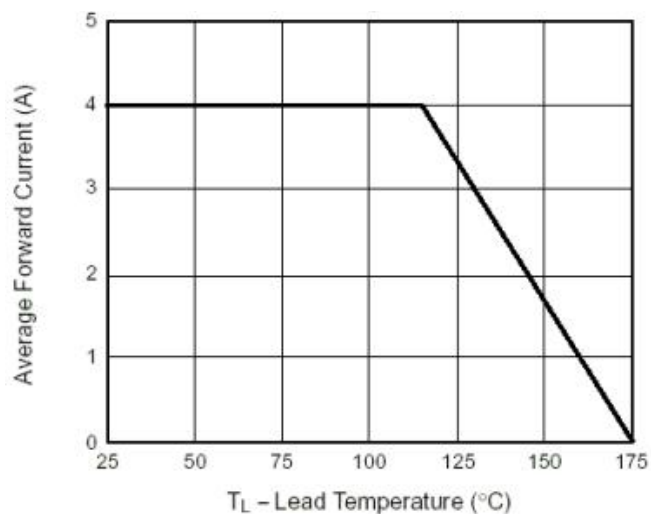


FIG2: Surge Forward Current Capability

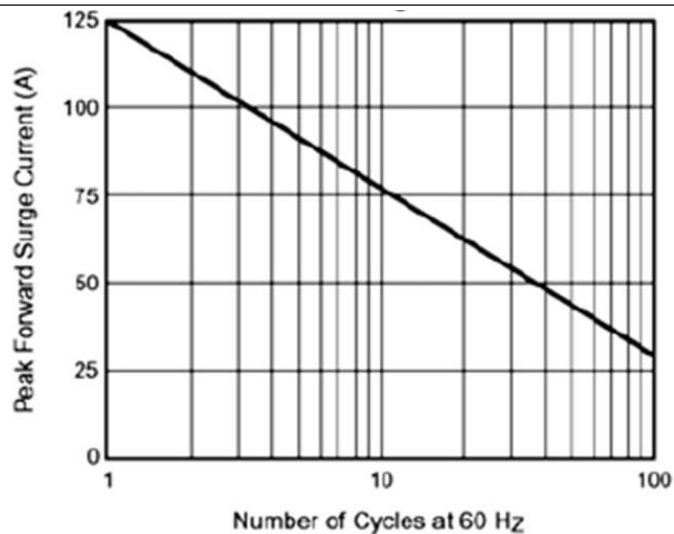


FIG3: Instantaneous Forward Voltage

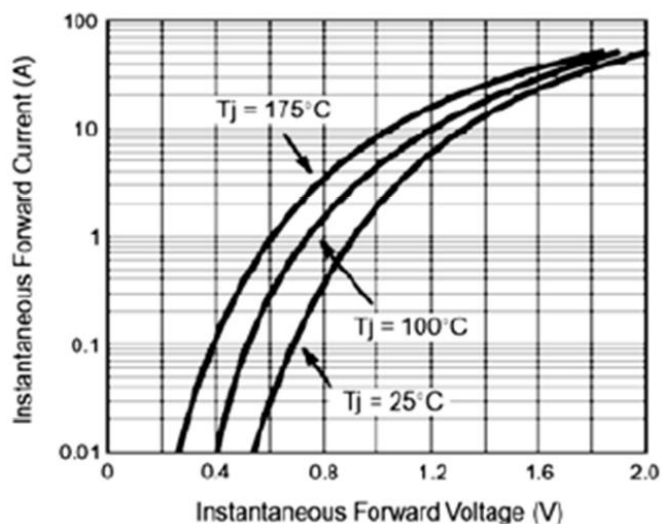


FIG4: Typical Reverse Characteristics

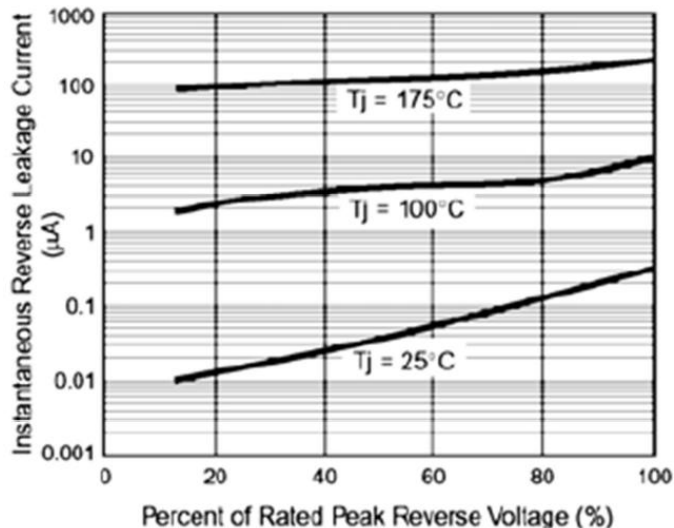
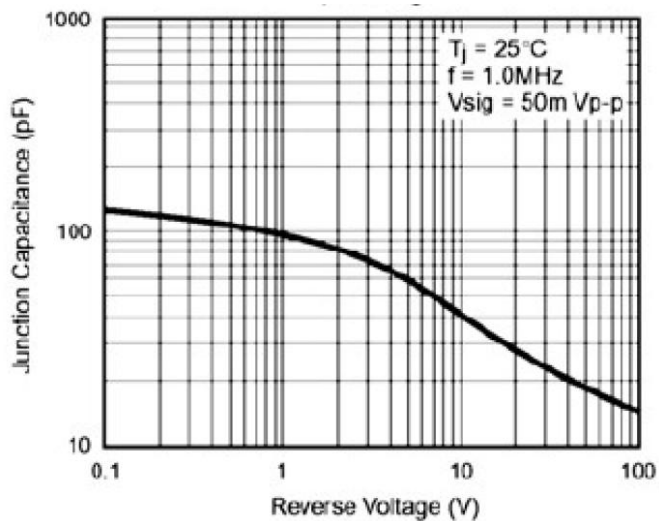


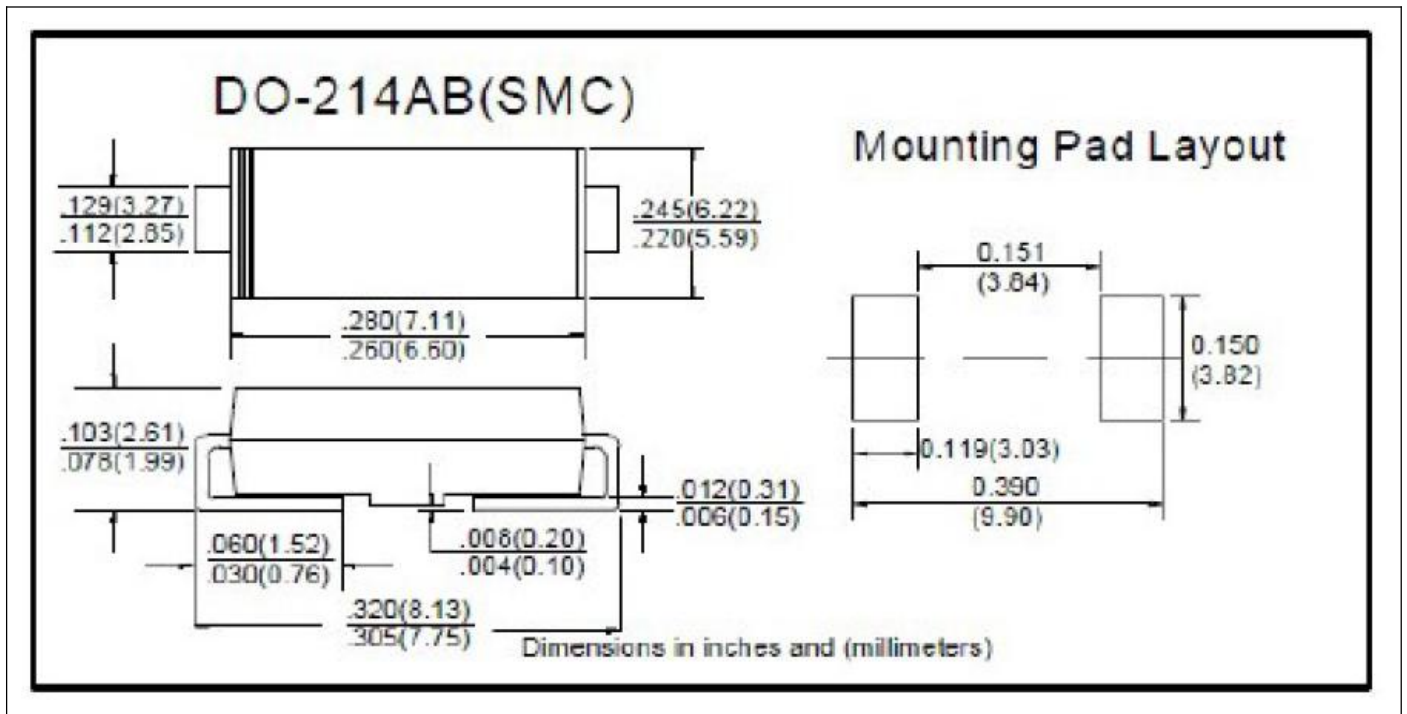
FIG5- Typical Junction Capacitance per Leg



■ Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR440S~MUR460S	DO-214AB(SMC)	3000	6000	42000	13" reel

■ Outline Dimensions



IMPORTANT NOTICE AND DISCLAIMER

AM RESERVES THE RIGHT TO MAKE CHANGES TO ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. CUSTOMERS SHOULD OBTAIN AND CONFIRM THE LATEST PRODUCT INFORMATION AND SPECIFICATIONS BEFORE FINAL DESIGN PURCHASE OR USE.

AM disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

All information are provided as-is, even it has qualified by the AEC-Q101 which satisfy industrial application requirement, except as expressly stated in this data sheet is applied for automotive grade, AM make no warranties, representation or guarantee, whether express, implied or statutory, including, without limitation, regarding any merchantability, satisfactory quality, or fitness for a particular purpose with respect to AM.

Am does not assume any liability or compensation for any application assistance or customer product design, and make no warranty or accept any liability with products, which are purchased or used for any unintended or unauthorized application.

Except as expressly indicated in writing, AM products are not designed for use in medical, life-saving, or lifesustaining applications or for any other application in which the failure of the AM product could result in personal injury or death. Customers using or selling AM products not expressly indicated for use in such applications do so at their own risk. Please contact authorized AM personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of AM. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Rectifiers](#) category:

Click to view products by [amsem](#) manufacturer:

Other Similar products are found below :

[70HFR40](#) [FR105 R0](#) [RL252-TP](#) [1N5397](#) [1N4005-TR](#) [1N4007-BP](#) [UFS120Je3/TR13](#) [20ETS12S](#) [RRE02VS6SGTR](#) [MS306](#) [A1N5404G-G](#)
[CRF02\(T5L,TEMQ\)](#) [ACGRB207-HF](#) [CLH07\(TE16L,Q\)](#) [CLH03\(TE16L,Q\)](#) [1N5395-TP](#) [UES1302](#) [ACGRC307-HF](#) [ACEFC304-HF](#) [DZ-](#)
[1380](#) [85HFR60](#) [40HFR60](#) [70HF120](#) [85HFR80](#) [SCF7500](#) [SM100](#) [ACGRA4001-HF](#) [SKN70/08](#) [NTE5819](#) [NTE5827](#) [NTE5828](#) [NTE5911](#)
[NTE5915](#) [NTE6104](#) [NTE6163](#) [NTE6164](#) [NTE6165](#) [NTE6364](#) [TSD3G](#) [SET130312](#) [NRVUS110VT3G](#) [UES1106](#) [UES1306](#)
[NRVUS240VT3G](#) [D5FE60-5063](#) [R4000GPS-TP](#) [D4015L56TP](#) [UES1306HR2](#) [FX20K120](#) [D20XB60-7101](#)