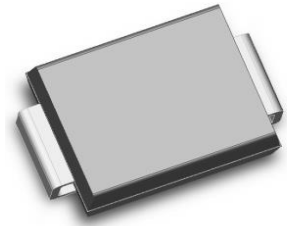
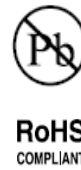


Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as a free wheeling diode
- Ultrafast recovery time for high efficiency
- For surface mount applications
- Glass passivated junction
- High temperature soldering guaranteed:250°C/10Seconds on terminals
- AEC-Q101 Qualified



DO-214AA (SMB)

Typical Applications

- Case: JEDEC DO-214AA (SMB) molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)				
PARAMETER	SYMBOL	AMURS140	AMURS160	UNIT
Maximum repetitive peak reverse voltage	VRRM	400	600	V
Working peak reverse voltage	VRWM	400	600	V
Maximum DC blocking voltage	VDC	400	600	V
Maximum average forward rectified current at TL(See Fig.1)	IF(AV)	1.0 2.0		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	35		A
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 175		°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	TEST CONDITIONS	SYMBOL	AMURS140	AMURS160	UNIT
Maximum instantaneous forward voltage	at IF=1.0A ,Tj=25°C at IF=1.0A ,Tj=150°C	V _F	1.25 1.05		Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C TA=125°C	I _R	5.0 150		µA
Typical reverse recovery time	IF=0.5A,IR=1.0A, Irr=0.25A	t _{rr}	50		nS
Typical reverse recovery time	IF=1.0A,di/dt=50A/uS, VR=30V,Irr=10%I _{RM}	t _{rr}	75		nS
Typical reverse recovery time	IF=1.0A,di/dt=100A/uS, recovery to 1.0V	t _{rr}	50		nS
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA}	13		°C/W

Note:1),The thermal resistance from junction to ambient,case or lead,mounted on P.C.B with 8.0×8.0mm copper pads

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

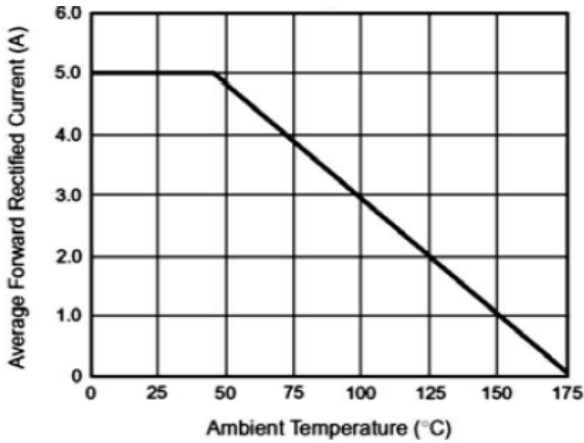


Figure 1. Forward Current Derating Curve

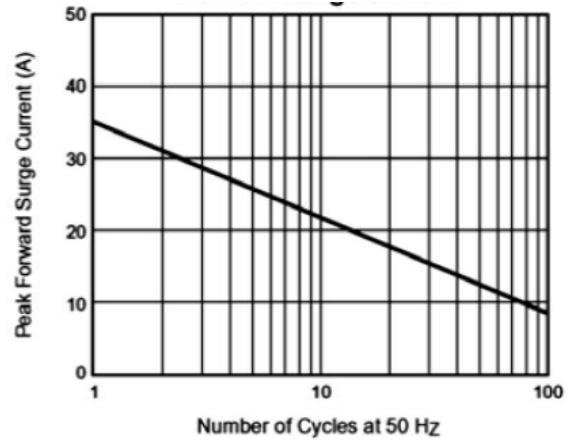


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

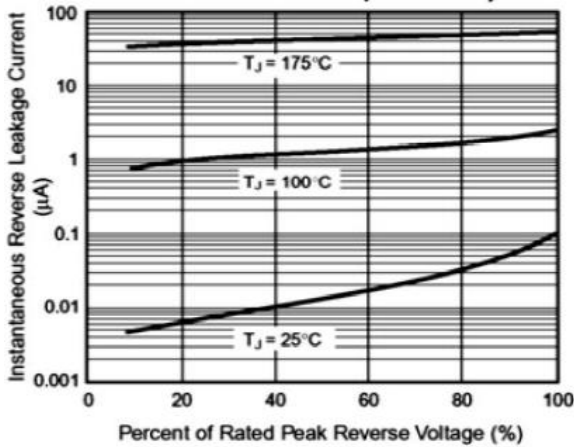


Figure 3. Typical Reverse Characteristics

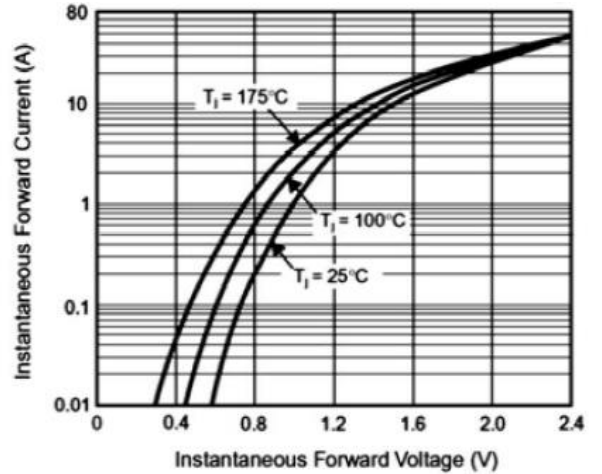


Figure 4. Typical Instantaneous Forward Characteristics

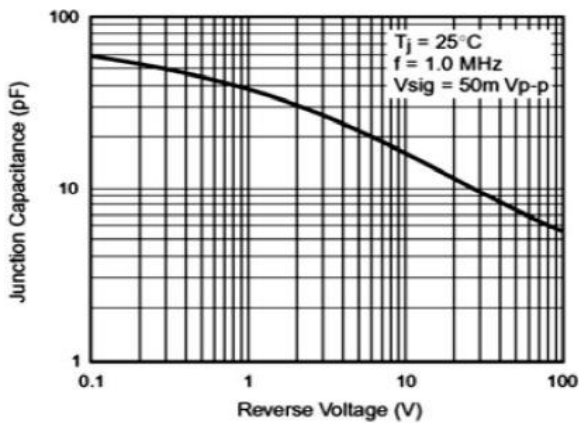
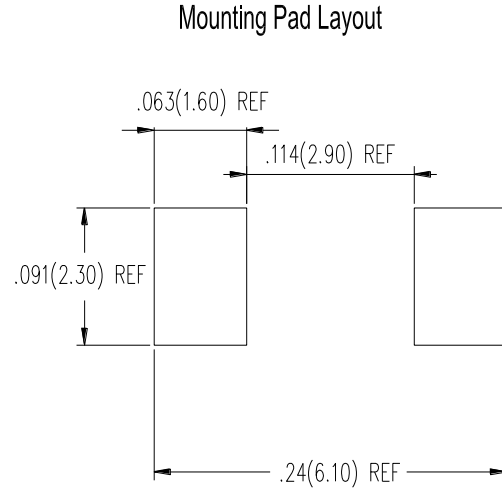
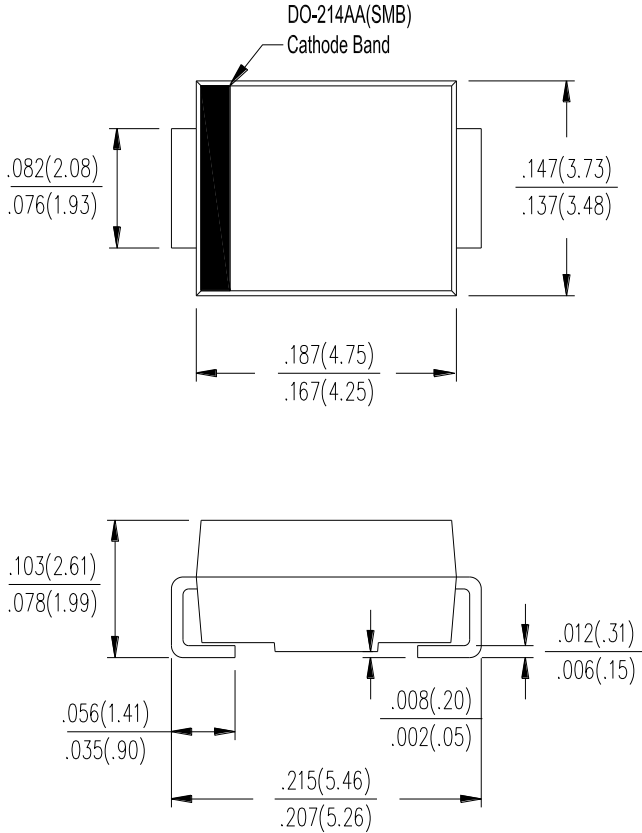


Figure 5. Typical Junction Capacitance

Package Outline Dimensions

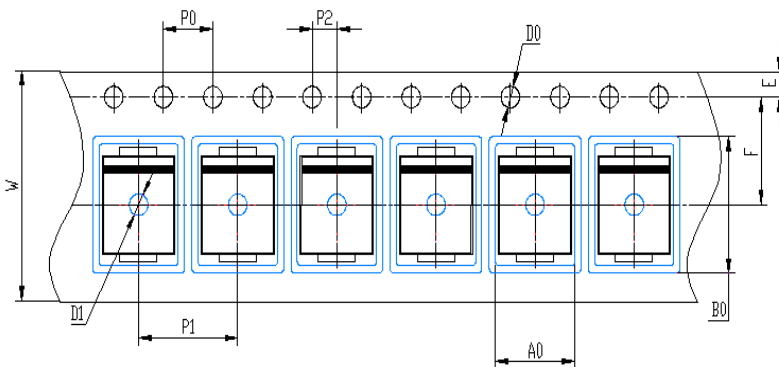
in inches (millimeters)



Packing Information

3000 pcs/Reel, 18 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbols	SMB (mm)
W	12 ± 0.2
E	1.75 ± 0.1
F	5.5 ± 0.05
D0	1.5 ± 0.1
D1	$1.50 +0.1/-0$
P0	4.0 ± 0.1
P1	8.0 ± 0.1
P2	2.0 ± 0.05
A0	3.95 ± 0.1
B0	5.74 ± 0.1



AMURS140 thru AMURS160

Surface Mount Glass Passivated Superfast Rectifier
Reverse Voltage 400V to 600V Forward Current 1.0A

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd. or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.
(<http://www.goodark.com>)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.