

SURFACE MOUNT GLASS PASSIVATED RECTIFIER US3A ~ US3J

Surface Mount Glass Passivated Rectifier

Features

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- Built-in strain relief, ideal for automated placement
- Glass passivated chip junction
- High temperature soldering guaranteed 250°C/ 10 seconds
- Fast switching speed for high efficiency
- RoHS and REACH compliance





DO214AB (SMC)

RoHS COMPLIANT

Mechanical Data

Case:	DO-214AB(SMC), transfer molded plastic						
Ероху:	Meets UL 94V-0 flammability rating						
Terminals:	Solder plated, solderable per MIL-STD 750, Method 2026						
Polarity:	Cathode indicated by color band						
Mounting position:	Any						
Weight:	0.21 gram						

Maximum Ratings (*T Ambient=25°C unless noted otherwise*)

Symbol	Description	US3A	US3B	US3C	US3D	US3F	US3G	US3J	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	150	200	300	400	600	V	
V RMS	Max RMS Voltage	35	70	105	140	210	280	420	V	
V DC	Max DC Blocking Voltage	50	100	150	200	300	400	600	V	
I(AV)	Max Average Forward Rectified Current	3.0							Α	TA=25°C
IFSM	Peak Forward Surge Current	150							А	8.3ms single half sine-wave (JEDEC)
trr	Maximum Reverse Recovery Time	50 75							nS	IF=0.5A, IR=1.0A, IRR=0.25A
Тл, Тѕтб	Operating and Storage Temperature Range	-55 to +150							°C	



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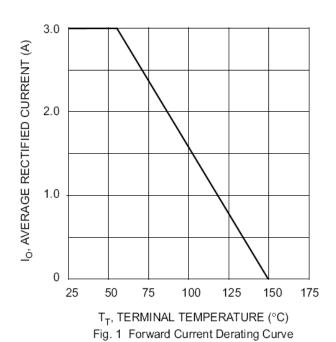
Electrical Characteristics (*T Ambient*=25°C unless noted otherwise)

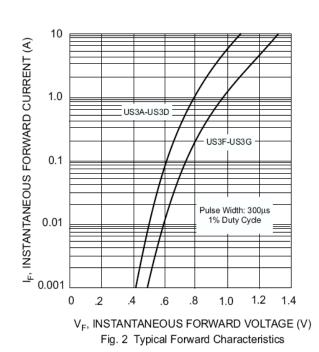
Symbol	Description	US3A	US3B	US3C	US3D	US3F	US3G	US3J	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0					1.3			I F(AV)= 3.0A
_	Max DC Reverse 5.0									TA=25℃
IR	Current at Rated DC Blocking Voltage	200							μΑ	TA=125℃
C ı	Typical Junction Capacitance	80 50							pF	At 1MHz, reversed voltage of 4V
R _{0-JA}	Typical Thermal 47									
Re-JL	Resistance	17							°C/W	

Note:

1. Unit mounted on PCB with 5.0mm2 (0.013mm thick) copper pads as heat sink.

Typical Characteristics Curves







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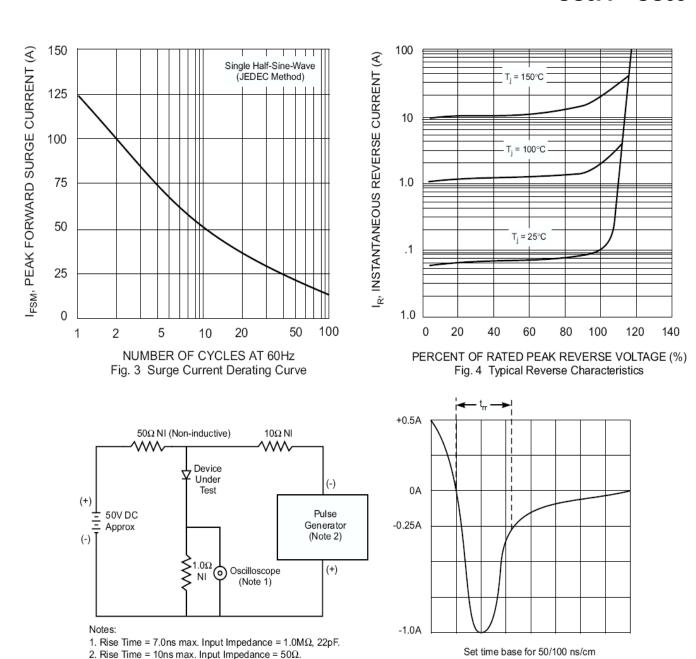


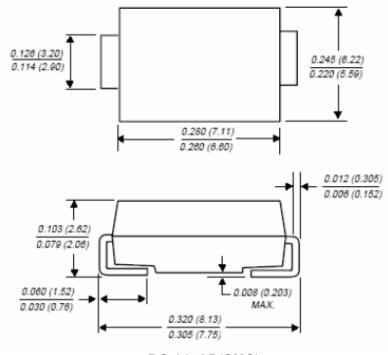
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



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Dimensions in inch (mm)



DO-214AB(SMC)