



SURFACE MOUNT GLASS PASSIVATED RECTIFIER S2A~ S2M

Surface Mount Glass Passivated Rectifier

Features

- Glass passivated chip junction
- Built in strain relief
- High current capability
- Low forward voltage drop
- Fast switching speed for high efficiency
- High temperature Soldering guaranteed: 260°C/ 10 seconds at terminals
- RoHS and REACH compliance



DO-214AA (SMB)

RoHS
COMPLIANT

Mechanical Data

Case:	JEDEC DO-214AA (SMB), transfer molded plastic
Epoxy:	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:	0.003 ounce, 0.093 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit	Conditions
V_{RRM}	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_(AV)	Max Average Forward Rectified Current at Ambient Temperature	2.0							A	TL=100°C (note 2)
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms single half sine-wave (JEDEC)
t_{rr}	Maximum Reverse Recovery Time	2.0							μS	IF=0.5A, IR=1.0A, IRR=0.25A
T_J,T_{STG}	Operating and Storage Temperature Range	-55 to +150							°C	

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit	Conditions
V_F	Max Instantaneous Forward Voltage	1.15							V	$I_{F(AV)}=1.0A$
I_R	Max DC Reverse Current at Rated DC Blocking Voltage	5							μA	$T_A=25^{\circ}C$
		125								$T_A=125^{\circ}C$
C_J	Typical Junction Capacitance	30							pF	At 1MHz, reversed voltage of 4V
$R_{\theta-JA}$	Typical Thermal Resistance	53							$^{\circ}C/W$	Note 2
$R_{\theta-JL}$		16								

Note:

1. Single phase, half wave, 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
2. Thermal Resistance, PCB mounted

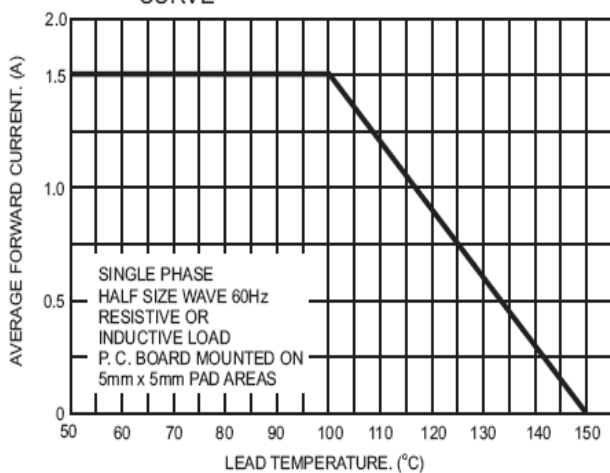
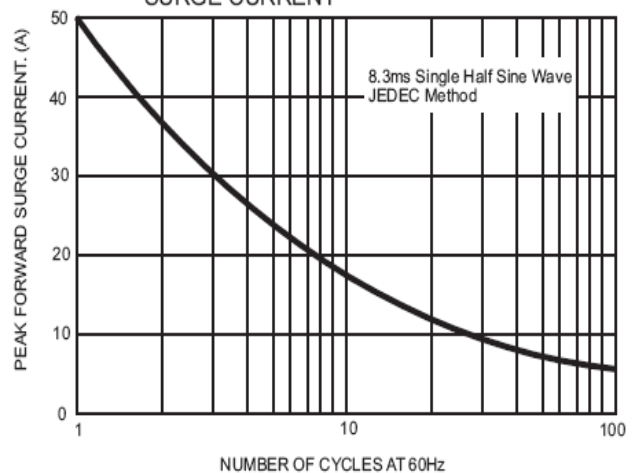
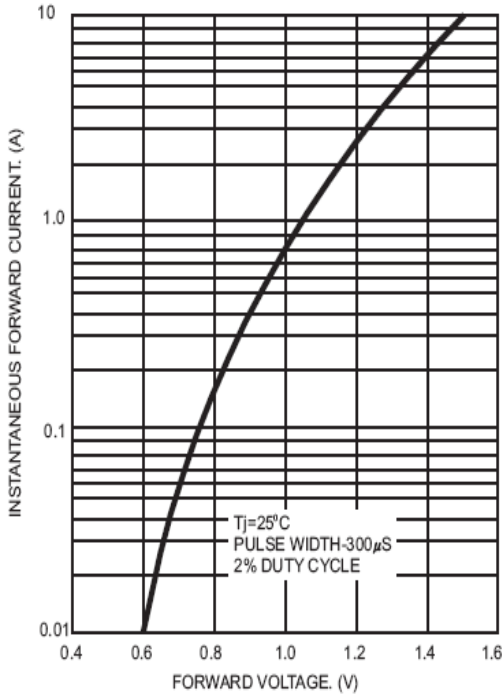
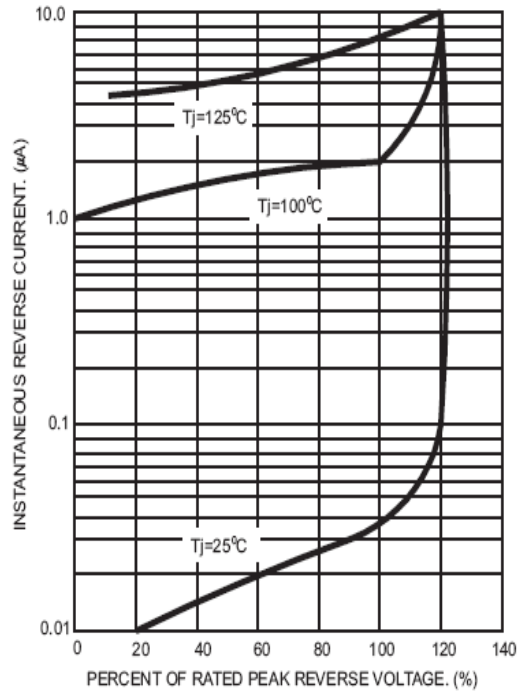
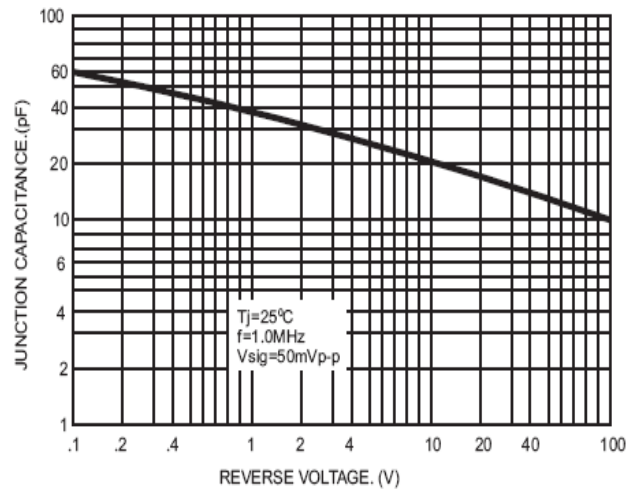
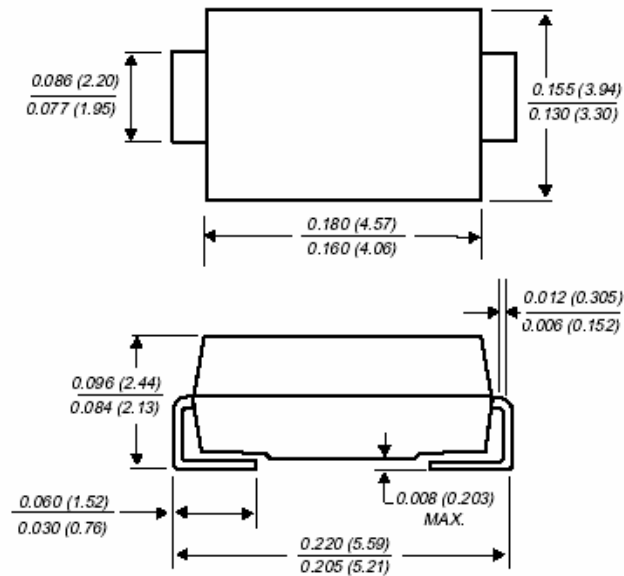
Typical Characteristics Curves
FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT


FIG.3- TYPICAL FORWARD CHARACTERISTICS

FIG.4- TYPICAL REVERSE CHARACTERISTICS

FIG.5- TYPICAL JUNCTION CAPACITANCE


Dimensions in inch (mm)

*Dimensions in inches and (millimeters)***DO-214AA(SMB)****Contact us:****US HEADQUARTERS****MEI SEMI INC.**

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