

Ultra Super Fast Recovery Diodes

UF2AB~UF2MB
2.0A
DO-214AA(SMB)

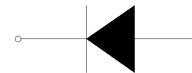
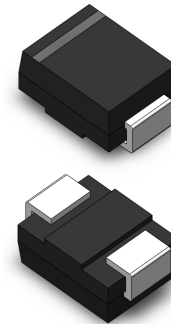
Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 260 °C /10 seconds at terminals

Mechanical Data

- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any
- ◆ Weight : 0.0035 ounce, 0.098 grams

DO-214AA(SMB)



Maximum Ratings and Electrical Characteristics (T_A =25°C unless otherwise specified)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter		Symbol	UF2AB	UF2BB	UF2DB	UF2GB	UF2JB	UF2KB	UF2MB	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Maximum average forward rectified current at T _L =100℃		I _(AV)	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50							A
Maximum instantaneous forward voltage at 2.0A		V _F	1.0			1.4	1.7			V
Maximum DC reverse current at rated DC blocking voltage	@ T _A = 25℃	I _R	2.0							μA
	@ T _A = 125℃		200							
Maximum reverse recovery time (Note 1)		T _{rr}	50				75			ns
Typical junction capacitance (Note2)		C _J	50							pF
Typical thermal resistance		R _{qJA}	60							℃/W
Operating junction and storage temperature range		T _J ,T _{STG}	-65 to +150							℃

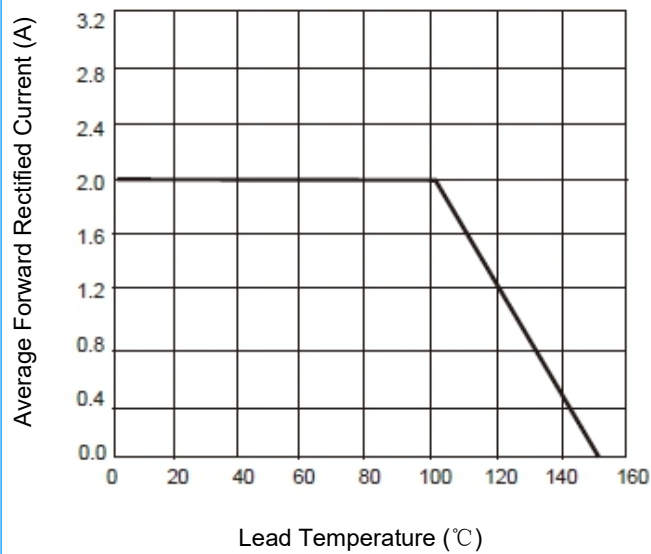
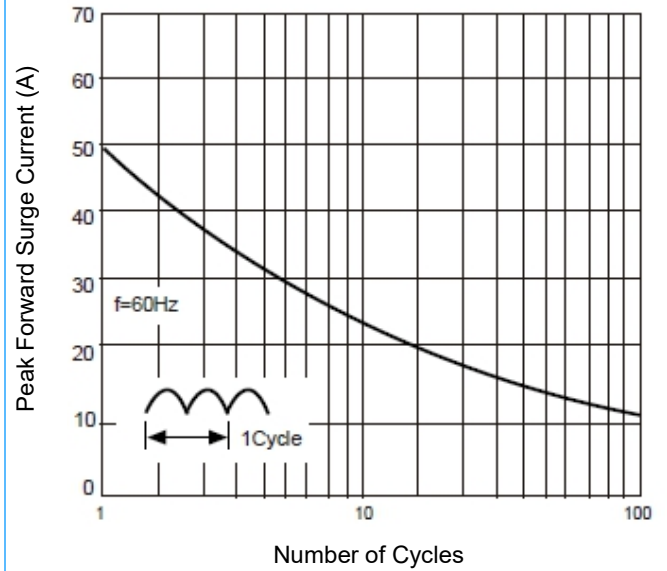
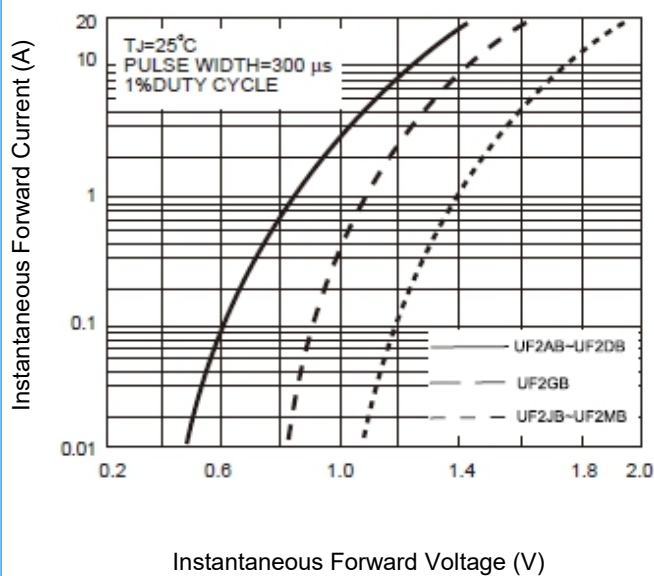
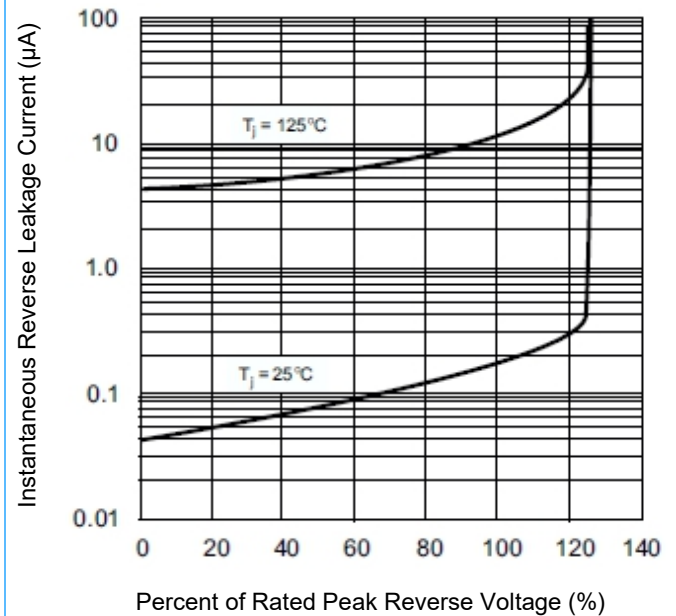
Notes: 1. Reverse recovery time test condition: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ultra Super Fast Recovery Diodes

UF2AB~UF2MB
2.0A
DO-214AA(SMB)

Rating and Characteristic Curves

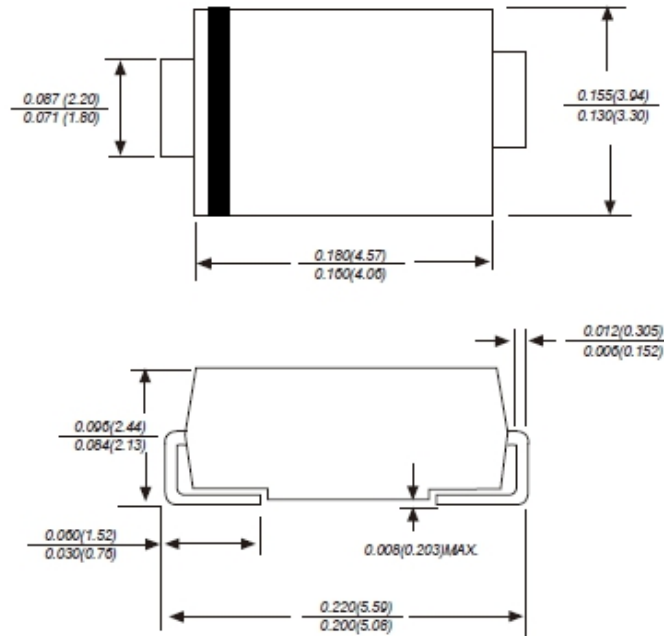
Fig.1. Derating Curve Output Rectified Current

Fig.2. Maximum Non-Repetitive Peak Forward Surge Current Perleg

Fig.3. Typical Forward Voltage Characteristics

Fig.4. Typical Reverse Leakage Characteristics


Ultra Super Fast Recovery Diodes

UF2AB~UF2MB
2.0A
DO-214AA(SMB)

Package Outline (Unit: mm)

DO-214AA(SMB)


Dimensions in inches (millimeters)

Packaging Information

Part Number	Component Package	Quantity
UF2AB~UF2MB	DO-214AA(SMB)	3000 PCS/REEL

Warning



- ◆ SOCAY owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property.
- ◆ SOCAY reserves the right to make changes without further notice to any products herein.
- ◆ SOCAY makes no warranties, representations or warranties as to the fitness of its products for any particular purpose, and disclaims any liability.
- ◆ The parameters provided in the SOCAY datasheet specification may vary from application to application, and the actual performance may vary over time. All operating parameters must be verified by the customer's technical expert before application.
- ◆ Any and all responsibilities and liabilities are disclaimed if any item under this notice of warning is not complied with.