US2A THRU US2M

SURFACE MOUNT HIGH EFFICIENCY RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

FEATURES

- ◆Plastic package has UL flammability Classification 94V-0
- ◆Glass Passivated chip junction
- ◆Built-in strain relief
- ◆Fast switching speed for high efficiency
- ◆High temperature soldering :

250°C/10 seconds

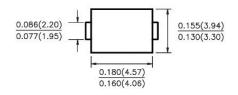
Mechanical Data

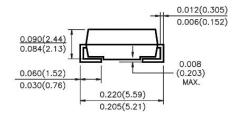
- ◆Case: JEDED DO-214AA transfer molded plastic
- ◆Terminals: Solder plated, Solderable per MIL-STD-750,

Method 2026

◆Polarity: Color band denotes cathode end

DO-214AA (SMB)





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER		SYMBOL	US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current At T _L =105°C (NOTE 1)		I _(AV)	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		İfsm	50						Amps	
Maximum instantaneous forward voltage at 2.0A		V_{F}	1.0 1			1.3	1.7			VOLTS
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃	l _R	5.0							
	T _A =125℃			100						
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}		50 100				ns		
Typical Junction Capacitance(Measured at 1.0MHz and applied reverse voltage of 4.0V)		CJ		50 30				pF		
Typical Thermal Resistance (NOTE 1)		Rеja	75							°C/W
		Røjl	17							
Operating Junction Temperature		TJ	-55 to +150							$^{\circ}$
Storage Temperature Rang		Тѕтс	-55 to +150						$^{\circ}$	

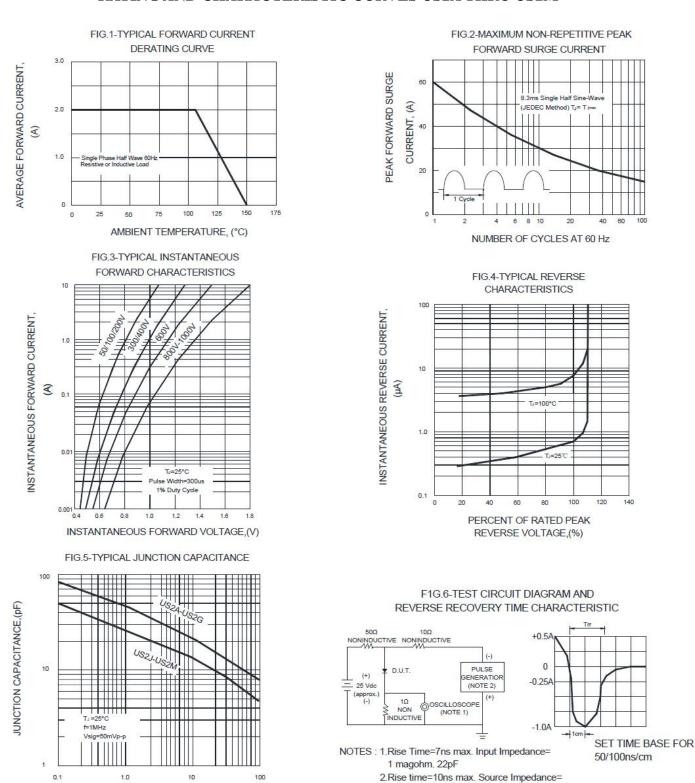
Note: Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3×0.3 " (8.0 \times 8.0mm) copper pad areas.



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RATING AND CHARACTERISTIC CURVES US2A THRU US2M



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

REVERSE VOLTAGE,(V)

50 ohms