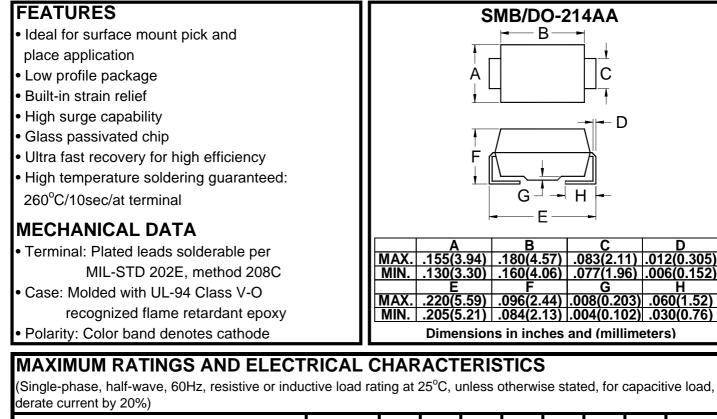
SHANGHAI SUNRISE ELECTRONICS CO., LTD.

US2A THRU US2M SURFACE MOUNT ULTRA FAST SWITCHING RECTIFIER VOLTAGE: 50 TO 1000V CURRENT: 2.0A

TECHNICAL SPECIFICATION

С

+ D



RATINGS	SYMBOL	US 2A	US 2B	US 2D	US 2G	US 2J	US 2K	US 2M	UNITS
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
Maximum Average Forward Rectified Curren ($T_L=90^{\circ}C$)	t I _{F(AV)}	2.0						А	
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	50						А	
Maximum Instantaneous Forward Voltage (at rated forward current)	V _F	1.0			1.4	1.7			V
Maximum DC Reverse Current $T_a=25^{\circ}$ (at rated DC blocking voltage) $T_a=100^{\circ}$	D	5.0 350						μΑ μΑ	
Maximum Reverse Recovery Time (Note	1) trr	50				75			nS
Typical Junction Capacitance (Note:	2) C _J	25						pF	
Typical Thermal Resistance (Note 3	3) R _θ (ja)	20						°C/W	
Storage and Operation Junction Temperature	e T _{STG} ,T _J	-50 to +150						°C	
Note:									

1.Reverse recovery condition I_F=0.5A, I_R=1.0A,Irr=0.25A.

2.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}

3. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area

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