SHANGHAI SUNRISE ELECTRONICS CO., LTD.

US2AA THRU US2MA SURFACE MOUNT ULTRA FAST SWITCHING RECTIFIER VOLTAGE: 50 TO 1000V CURRENT: 2.0A

TECHNICAL SPECIFICATION

• Ideal for surface m

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Glass passivated chip
- Ultra fast recovery for high efficiency
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O
 - recognized flame retardant epoxy
- Polarity: Color band denotes cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

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RATINGS	SYMBOL	US2 AA	US2 BA	US2 DA	US2 GA	US2 JA	US2 KA	US2 MA	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 Curre (T _L =90°C)	nt I _{F(AV)}	v) 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 $T_a=25$ (at rated DC blocking voltage) $T_a=100$		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) 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 $4.0 V_{dc}$

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

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