SHANGHAI SUNRISE ELECTRONICS CO., LTD.

US3A THRU US3M SURFACE MOUNT ULTRA FAST SWITCHING RECTIFIER VOLTAGE: 50 TO 1000V CURRENT: 3.0A

TECHNICAL SPECIFICATION

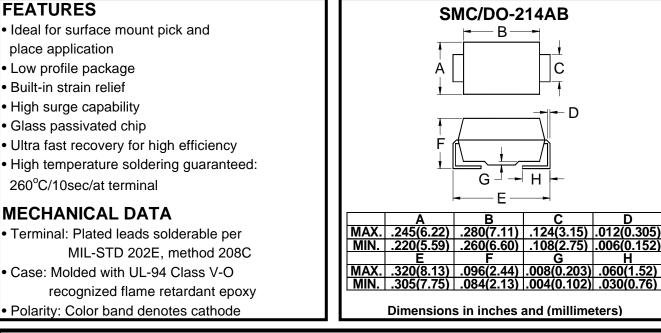
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SYMBOL	US 3A	US 3B	US 3D	US 3G	US 3J	US 3K	US 3M	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 Currer $(T_L=75^{\circ}C)$	nt I _{F(AV)}	3.0					А		
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	100						А	
Maximum Instantaneous Forward Voltage (at rated forward current)	V _F	1.0 1.4			1.4	1.7			V
Maximum DC Reverse Current $T_a=25$ (at rated DC blocking voltage) $T_a=100$		10.0 500					μΑ μΑ		
Maximum Reverse Recovery Time (Note	1) trr	50					75	nS	
Typical Junction Capacitance (Note	2) C _J	45						pF	
Typical Thermal Resistance (Note	3) R _θ (ja)	25						°C/W	
Storage and Operation Junction Temperatur	e T _{STG} ,T _J	-50 to +150					°C		
Note:									

1. Reverse recovery condition $I_F=0.5A$, $I_R=1.0A$, $I_{T}=0.25A$.

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

3. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area

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