US3A THRU

SURFACE MOUNT HIGH EFFICIENCY RECTIFIER **REVERSE VOLTAGE** 50 to 1000 Volts **FORWARD CURRENT** 3.0 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 guaranteed: 250°C/10 seconds

MECHANICAL DATA

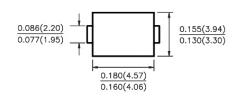
Case: JEDED DO-214AA transfer molded plastic

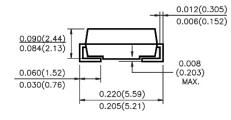
Terminals: Solder plated, Solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

DO-214AA (SMB)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified, Dimensions in inches and (millimeters) Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

PARAMETER		SYMBOL	US3A	US3B	US3D	US3G	US3J	US3K	US3M	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 $T_L = 105^{\circ}$ (NOTE 1)		I _(AV)	3.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I FSM	100						Amps	
Maximum instantaneous forward voltage at 3.0A		V _F	1.0 1.3 1.7					VOLTS		
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃	l _R	10							- uA
	T _A =125℃		200							
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	50			75			ns	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		С	80			50			pF	
Typical Thermal Resistance (NOTE 1)		RөJA	55						- °C/W	
		R θ JL	17							
Operating Junction Temperature		T _J ,	-55 to +150							$^{\circ}$
Storage Temperature Rang		Тѕтс	-55 to +150							$^{\circ}$

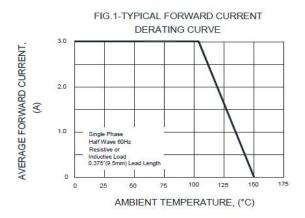
¹⁻ Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3 \times 0.3''$ (8.0 \times 8.0mm) copper pad areas

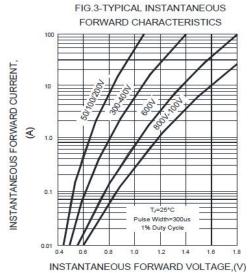
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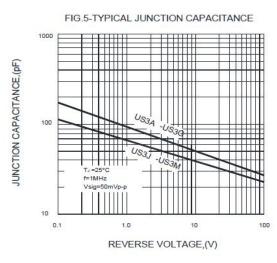
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

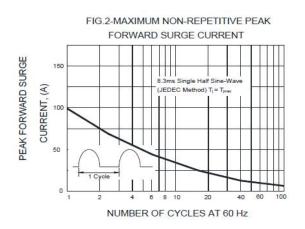
US3A THRU US3N

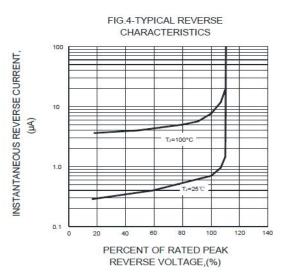
RATINGS AND CHARACTERISTIC CURVES



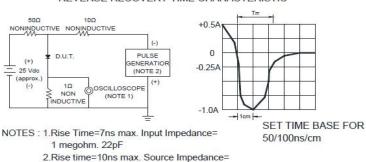








F1G.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



2.Rise time=10ns max. Source Impedance= 50 ohms

Note: Specifications are subject to change without notice.

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