SURFACE MOUNT HIGH EFFICIENCY RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 3.0 Ampere

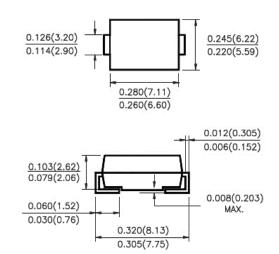
FEATURES

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-214AB transfer molded plastic Terminals: Solder plated, Solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Weight: 0.007 ounce, 0.25 gram

DO-214AB (SMC)



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US3A THRU US3M

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	US3A	US3B	US3D	US3G	US3J	US3K	US3M	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current At T_L =105°C (NOTE 1)		I(AV)	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	100							Amps
Maximum instantaneous forward voltage at 3.0A		VF	1.0 1.3			1.7			VOLTS	
Maximum DC Reverse Current at Rated DC blocking voltage at	T _A =25℃		10							
	T _A =125℃	- IR	200							uA
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		80			50			pF
Typical Thermal Resistance (NOTE 1)		Reja	55						°C/W	
		Rejl	17							C/W
Operating Junction Temperature		TJ	-55 to +150							°C
Storage Temperature Rang		Тѕтс	-55 to +150							°C
1- Thermal resistance from Ju	nction to ambient and fro	m junction	n to lead	mounte	ed on					

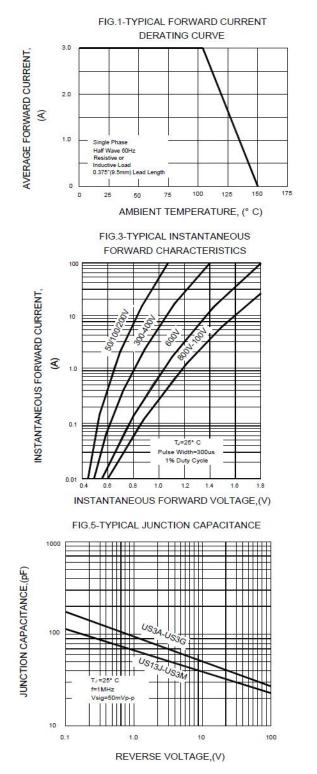
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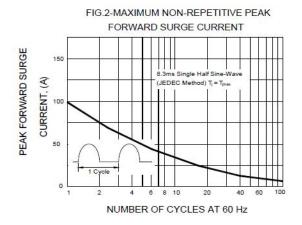
P.C.B. with 0.3 \times 0.3 '' (8.0 $~\times~~$ 8.0mm) copper pad areas

Kingtronics[®] International Company

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

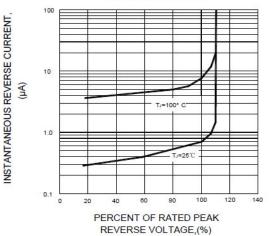
RATINGS AND CHARACTERISTIC CURVES



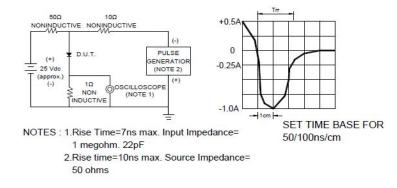


US3A THRU US3N

FIG.4-TYPICAL REVERSE CHARACTERISTICS







Note: Specifications are subject to change without notice.

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