

SURFACE MOUNT GENERAL RECTIFIER		Reverse Voltage - 50 to 1000 Volts Forward Current -5.0 Amperes							
DO-214AA Dimensions in inches and (millimeters)		Features ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Low reverse leakage ◆ Built-in strain relief, ideal for automated placement ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals Mechanical Data Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.09grams							
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 current derate by 20%.									
	SYMBOLS	S5A	S5B	S5D	S5G	S5J	S5K	S5M	UNITS
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 =75°C	I _(AV)	5.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200.0							Amps
Maximum instantaneous forward voltage at 3.0A	V _F	1.1							Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	10.0 250.0							uA
Typical junction capacitance (NOTE 1)	C _J	60.0							pF
Typical thermal resistance (NOTE 2)	R _{qJA}	50.0							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175							°C
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2. P.C.B. mounted with 0.2x0.2”(5.0x5.0mm) copper pad areas									

