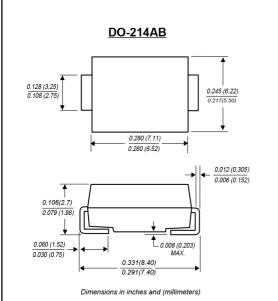


# S3A THRU S3M

SURFACE MOUNT GENERAL RECTIFIER Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes



#### 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:0.22grams

## 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%.

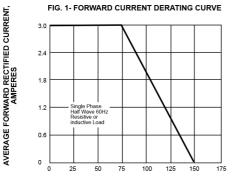
	SYMBOLS	S3A	S3B	S3D	S3G	S3J	sзк	S3M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T∟=75 ℃	l(AV)	3.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100.0							Amps
Maximum instantaneous forward voltage at 3.0A	Vf	1.1						Volts	
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=100℃	lĸ	10.0 250.0							uA
Typical junction capacitance (NOTE 1)	CJ	60.0						pF	
Typical thermal resistance (NOTE 2)	Rqja	50.0						°C/W	
Operating junction and storage temperature range	Tj,Tstg	-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

# CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO., LTD.

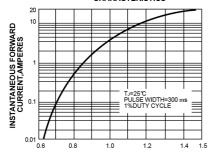


# RATINGS AND CHARACTERISTIC CURVES S3A THRU S3M



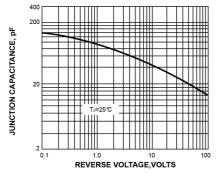
AMBIENT TEMPERATURE,°C

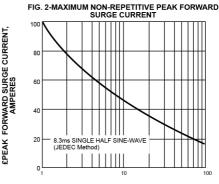
FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

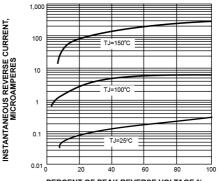
FIG. 5-TYPICAL JUNCTION CAPACITANCE





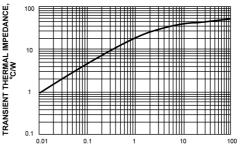
NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

#### CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO., LTD.