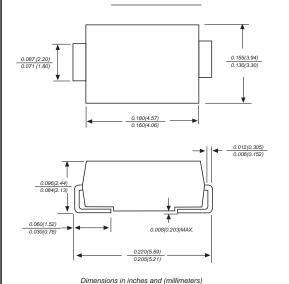


S3A THRU S3M

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage -50 to 1000 Volts Forward Current - 3.0 Amperes

DO-214AA/SMB



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-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

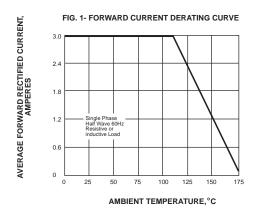
Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

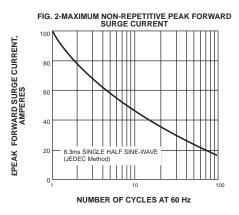
TWGMC Catalog Number	SYMBOLS	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV)	3.0							Amps
at TL=110°C	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM 100.0							Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 3.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25℃		5.0 100.0							μА
at rated DC blocking voltage Ta=100℃	l _R								
Typical junction capacitance (NOTE 1)	Cı	60.0						pF	
Typical thermal resistance (NOTE 2)	RθJA	50.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

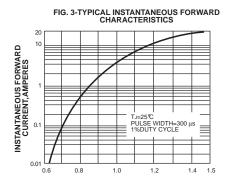
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

www.tw-gmc.com

RATINGS AND CHARACTERISTIC CURVES S3A THRU S3M

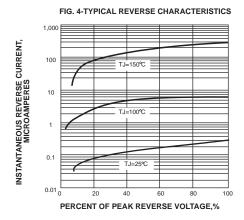


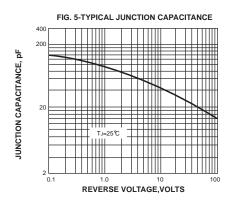


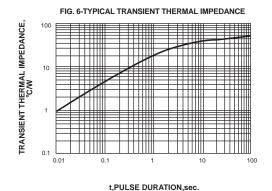


INSTANTANEOUS FORWARD VOLEAGE,

VOLTS







The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

