



# Product data sheet

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Semiconductor Compiance



## **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Fast switching speed

## **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.21 grams

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		•					•	
At T∟=75℃		3.0					А	
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		100					A	
Maximum Instantaneous Forward Voltage at 3.0A		1.10					V	
Maximum DC Reverse Current Ta=25°C				5.0				μA
at Rated DC Blocking Voltage Ta=125°C				250				μA
Typical Junction Capacitance (Note1)		60					pF	
Typical Thermal Resistance R JL (Note 2)		13				°C/W		
Operating and Storage Temperature Range TJ, Tstg		-65-+150				°C		

#### NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.





10

1.0

.1

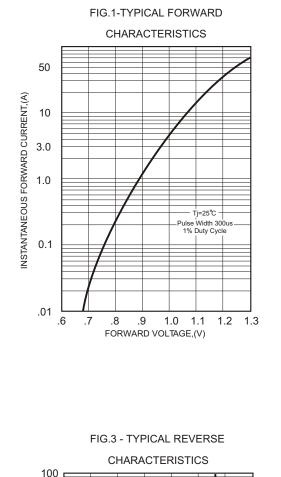
.01

0

20

REVERSE LEAKAGE CURRENT, (A)

### RATING AND CHARACTERISTIC CURVES (S3A THRU S3M)



Ti=100°

Tj=25°C

80

PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

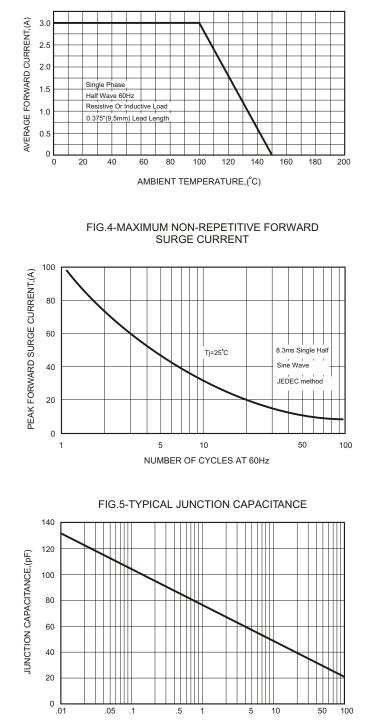
100 120

140

60

40

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE



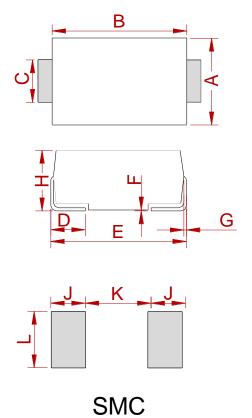
REVERSE VOLTAGE,(V)



S3A THRU S3M HF 🐼

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## PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inc	hes	
	Min.	Max.	Min.	Max.	
A	5.75	6.25	0.226	0.246	
В	6.90	7.40	0.272	0.291	
С	2.75	3.25	0.108	0.128	
D	0.95	1.52	0.037	0.060	
E	7.70	8.20	0.303	0.323	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.15	2.62	0.085	0.103	
J	2.40		0.094		
К		4.20		0.165	
L	3.30		0.130		

# **REEL SPECIFICATION**

P/N	PKG	QTY
S3A THRU S3M	SMC	3000



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