

# GS1AF

## Product profile

Surface Mount High Current Density Schottky

## General description

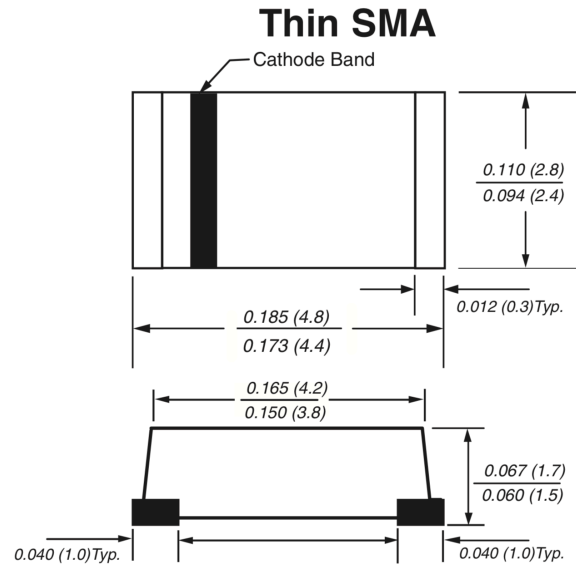
Rectifiers 1.0 Amp 1000V

## Features

- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance

## Mechanical data

- Case: SMA Thin Molded plastic
- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any



## Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	GS1AF	Unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
RMS Voltage (Max.)	VRMS	700	V
Working peak reverse voltage	VRWM	1000	V
Maximum average forward rectified current	IF(AV)	1.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	A
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

## THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
Typical thermal resistance	RθJA	42	°C/W

Notes:

- (1) Pulse test: 300 μs pulse width, 1 % duty cycle
- (2) Pulse test: Pulse width ≤ 40 ms

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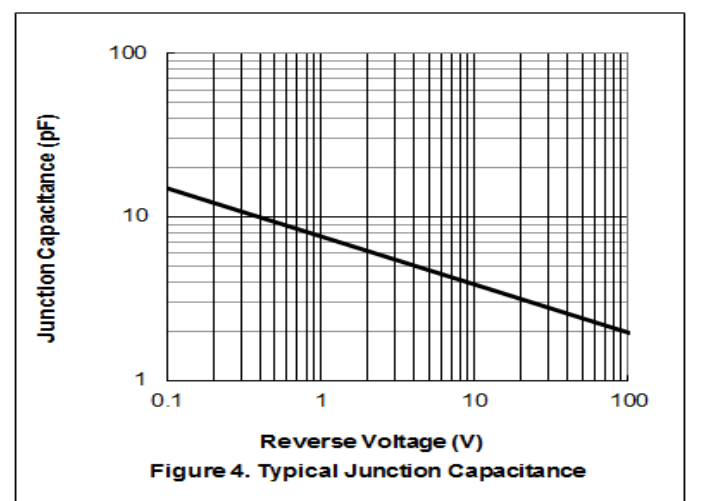
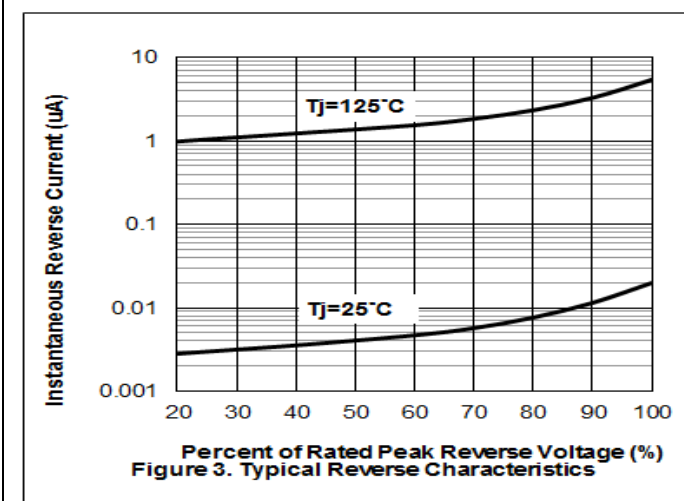
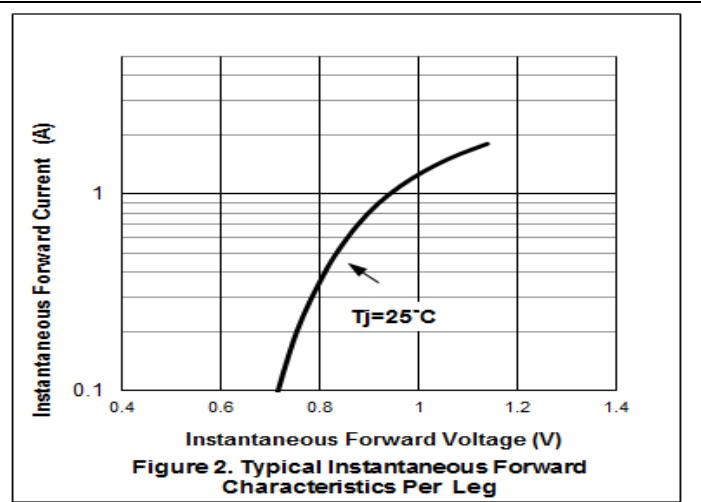
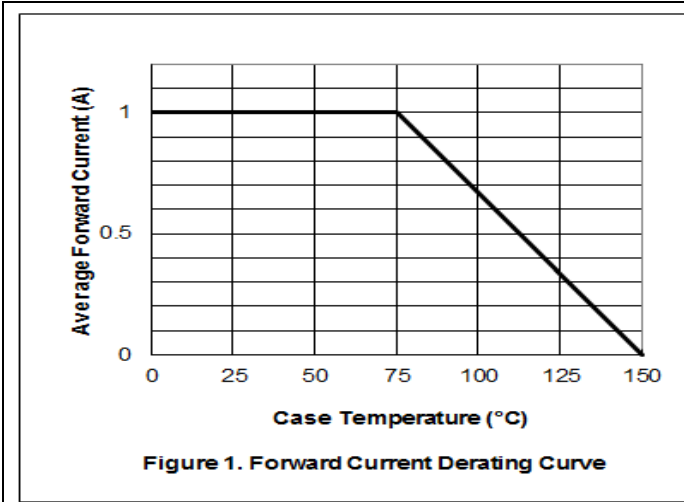
### Electrical characteristics (Tc=25°C unless otherwise noted)

#### OFF CHARACTERISTICS

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=1A, Tj=25°C	VF	0.94	1.0	V
Maximum reverse current Tj=25°C	IR	2		u'A
at working peak reverse voltage Tj=125°C		2		m'A
Junction Capacitance @ DC 5V	CJ	4		pF

## GS1AF

### ■ Characteristic Curves



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