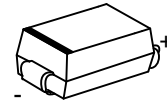


**GS2AA THRU GS2MA****DIODE****2.0A SURFACE MOUNT
GENERAL PURPOSE
RECTIFIER****■ DESCRIPTION**

The UTC **GS2AA THRU GS2MA** is a 2.0A Schottky Barrier Rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop, low reverse current and high efficiency, etc.

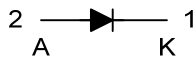
The UTC **GS2AA THRU GS2MA** is suitable for free wheeling diodes, high frequency inverters, low voltage and polarity protection diodes.



SMA
(JEDEC DO-214AC)

■ FEATURES

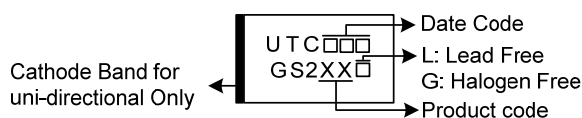
- * Glass passivated chip junction
- * High forward surge capability

■ SYMBOL**■ ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
GS2XXL-SMA-R	GS2XXG-SMA-R	SMA	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

GS2XXG-SMA-R (1) Packing Type (2) Package Type (3) Green Package (4) Product Code	(1) R: Tape Reel (2) SMA: SMA (3) G: Halogen Free and Lead Free, L: Lead Free (4) refer to ABSOLUTE MAXIMUM RATINGS
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■ MARKING

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS							UNIT
		GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Average Forward Rectified Current	I _O	2.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	50							A
Operating Junction Temperature Range	T _J	-55 ~ +150							°C
Storage Temperature Range	T _{STG}	-55 ~ +150							°C

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. Mounted on glass epoxy pc board with 1.3mm² solder pad.

3. Mounted on aluminum substrate PC board with 1.3mm² solder pad.

■ THERMAL DATA

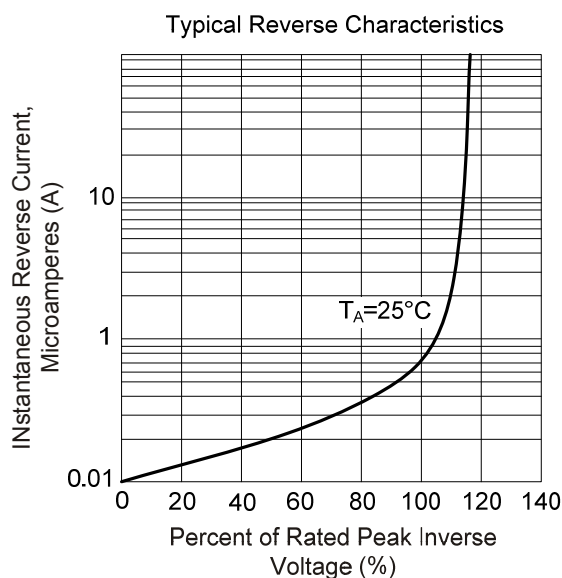
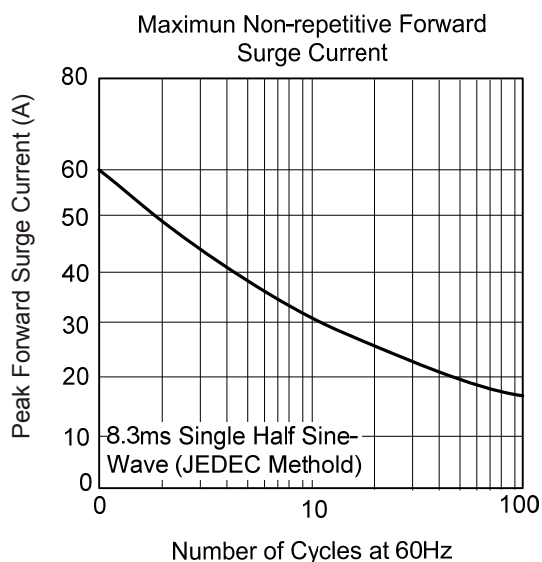
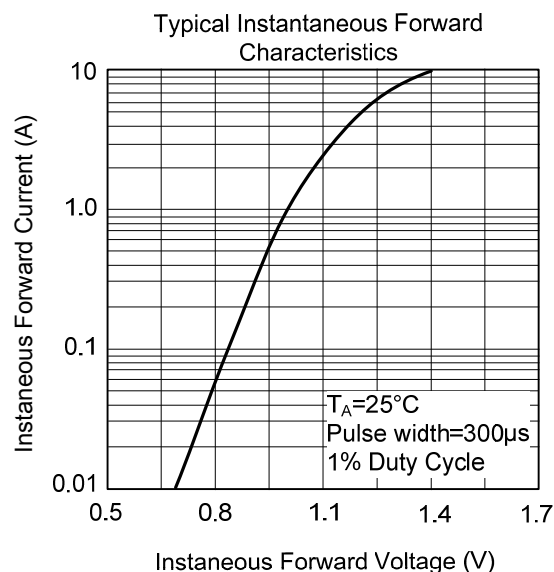
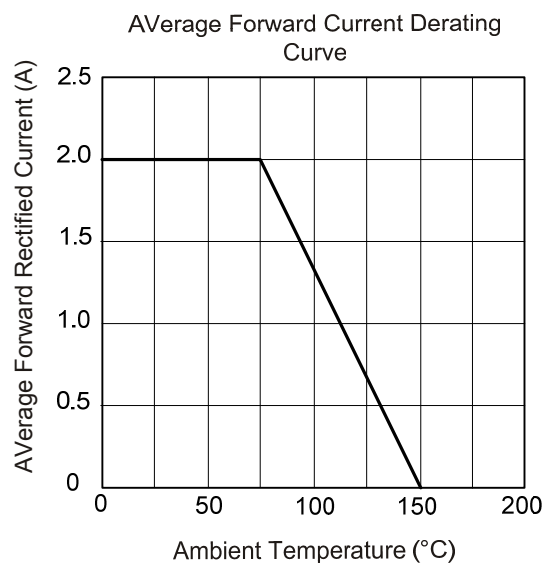
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	53	°C/W

Note: Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	RATINGS							UNIT
			GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	
Maximum Instantaneous Forward Voltage	V _F	I _F =2.0A	1.15	1.15	1.15	1.15	1.15	1.15	1.15	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Diode @ V _{RM} =V _{RRM}	I _{RRM}	T _J =25°C	5	5	5	5	5	5	5	V
		T _J =100°C	50	50	50	50	50	50	50	μA

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.