



SR22 THRU SR26

DIODE

2.0A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

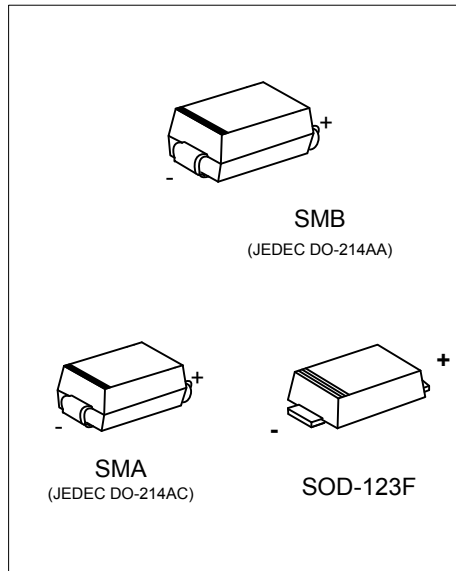
The UTC **SR22 THRU SR26** is a 2.0A Schottky Barrier Rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop, low reverse current and high efficiency, etc.

The UTC MBR1100 is suitable for free wheeling diodes, high frequency inverters, low voltage and polarity protection diodes.

FEATURES

- * Low leakage
- * Surge overload rating-30A peak
- * Designed for Surface Mount Application

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SRXXL-SMA-R	SRXXG-SMA-R	SMA	K	A	Tape Reel
SRXXL-SMB-R	SRXXG-SMB-R	SMB	K	A	Tape Reel
SRXXL-CA2F-R	SRXXG-CA2F-R	SOD-123F	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

	<p>(1) R: Tape Reel (2) SMA: SMA, SMB: SMB, CA2F: SOD-123F (3) G: Halogen Free and Lead Free, L: Lead Free (4) refer to ABSOLUTE MAXIMUM RATINGS</p>
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MARKING

SMA / SMB	SOD-123F

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

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

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS					UNIT
		SR22	SR23	SR24	SR25	SR26	
DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
RMS Voltage	V_{RMS}	14	21	28	35	42	V
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	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 ~ +125					$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +125					$^{\circ}\text{C}$

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 1.3mm^2 solder pad.

3. Mounted on aluminum substrate PC board with 1.3mm^2 solder pad.

■ THERMAL DATA (Note)

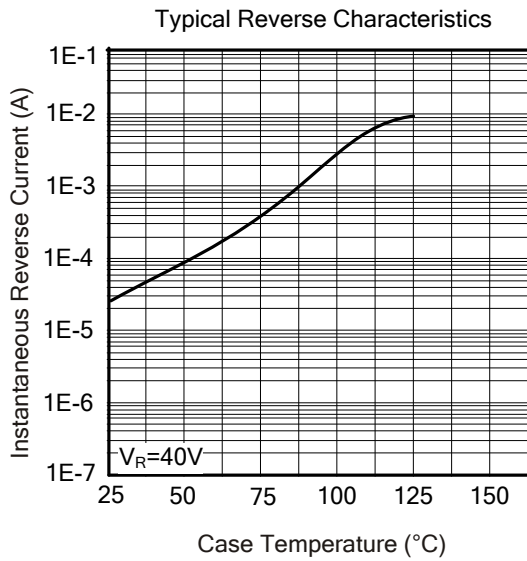
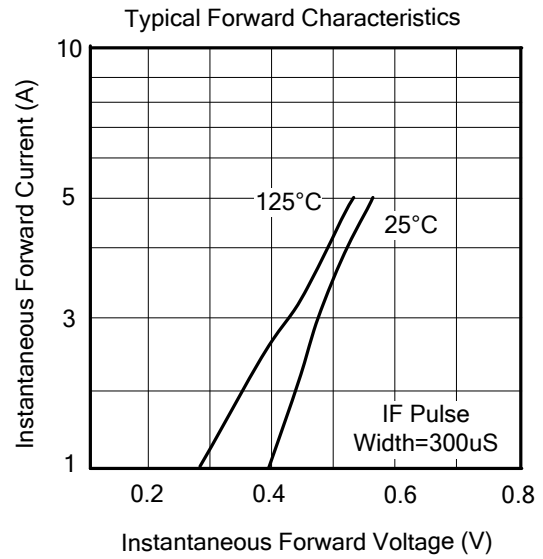
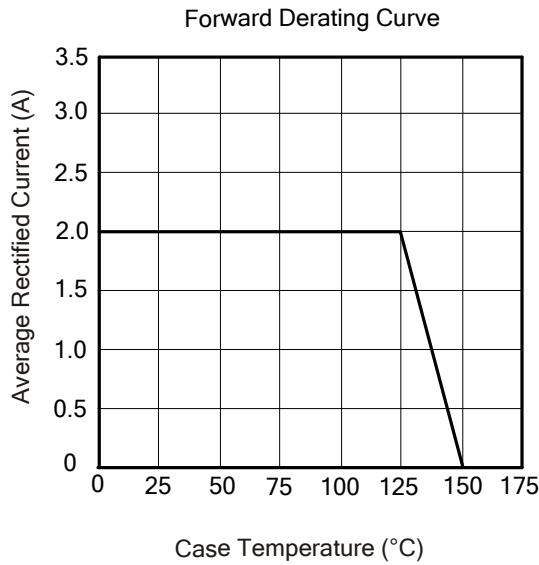
PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	SOD-123F	40	$^{\circ}\text{C}/\text{W}$
	SMA	32	$^{\circ}\text{C}/\text{W}$
	SMB	20	$^{\circ}\text{C}/\text{W}$

Notes: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	RATINGS					UNIT
			SR22	SR23	SR24	SR25	SR26	
Maximum Instantaneous Forward Voltage	V_F	$I_F=2.0\text{A}$	0.50	0.50	0.50	0.65	0.65	V
		$I_F=6.0\text{A}$	0.80	0.80	0.80	0.90	0.90	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^{\circ}\text{C}$	2.0	2.0	2.0	2.0	2.0	mA
		$T_J=125^{\circ}\text{C}$	50	50	50	50	50	mA
Typical Junction Capacitance	C_P	$V_R=4\text{V}$, $f=1\text{MHz}$	130	130	130	120	120	pF

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.