



## SR22 THRU SR26

DIODE

### 2.0A SCHOTTKY BARRIER RECTIFIER

#### DESCRIPTION

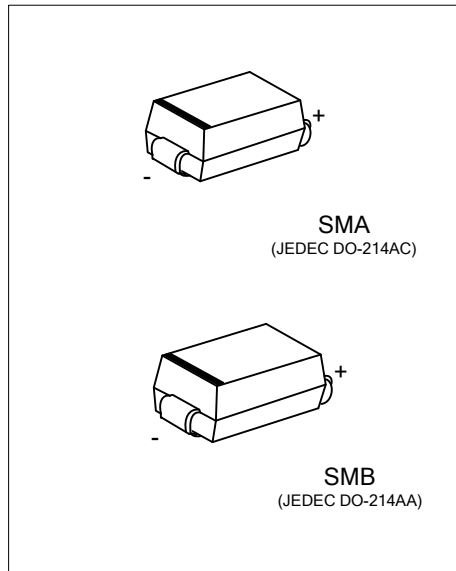
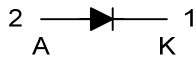
The UTC **SR22 THRU SR26** is a 2.0A Schottky Barrier Rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop, low reverse current and high efficiency, etc.

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



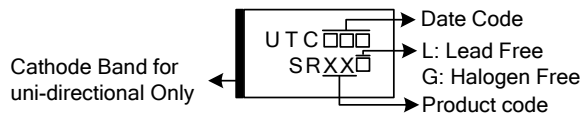
#### ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

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



■ 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  $1.3\text{mm}^2$  solder pad.

3. Mounted on aluminum substrate PC board with  $1.3\text{mm}^2$  solder pad.

■ THERMAL DATA

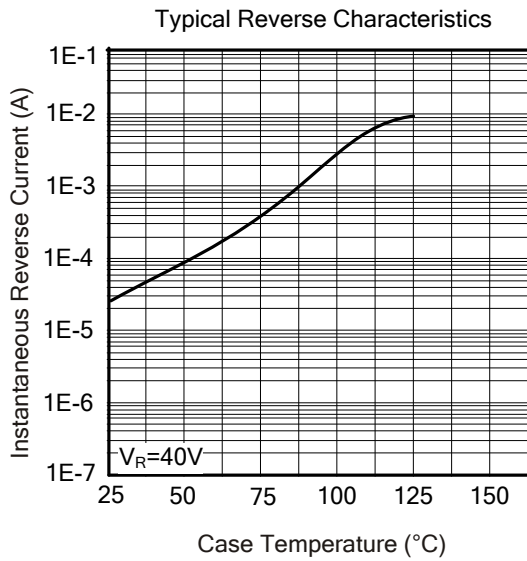
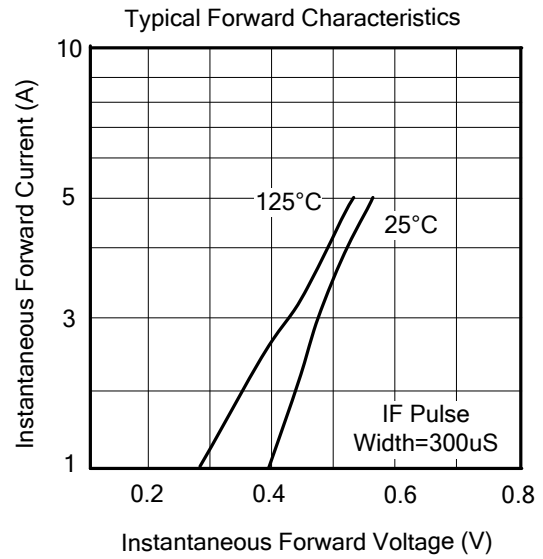
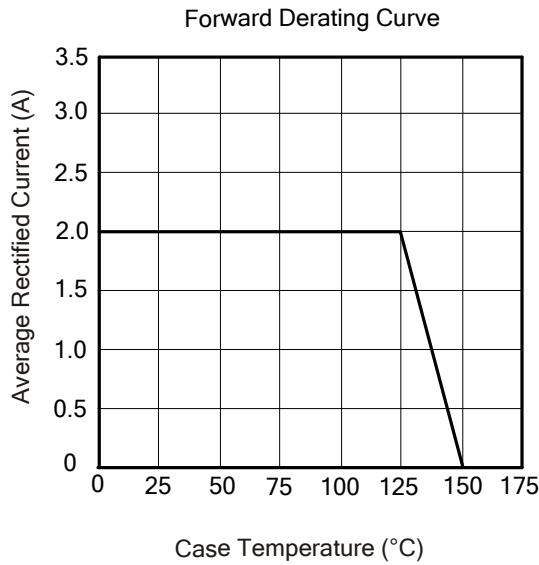
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	70	$^{\circ}\text{C}/\text{W}$

Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

■ 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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.