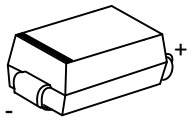
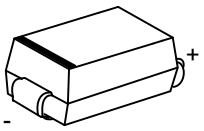
SR22 THRU SR26

DIODE

2.0A SCHOTTKY BARRIER RECTIFIER



SMA
(JEDEC DO-214AC)



SMB
(JEDEC DO-214AA)

■ DESCRIPTION

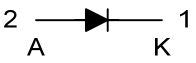
The UTC **SR22 THRU SR26** is a 2.0A Schottky Barrier Rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop, low reverse current and high efficiency, etc.

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

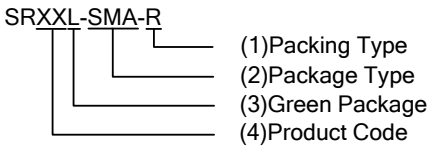
■ SYMBOL



■ ORDERING INFORMATION

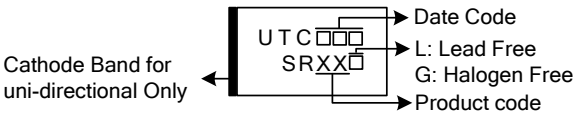
Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SRXXL-SMA-R	SRXXG-SMA-R	SMA	K	A	Tape Reel
SRXXL-SMB-R	SRXXG-SMB-R	SMB	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode



(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

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°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					°C
Storage Temperature Range	T_{STG}	-55~+125					°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

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	70	°C/W

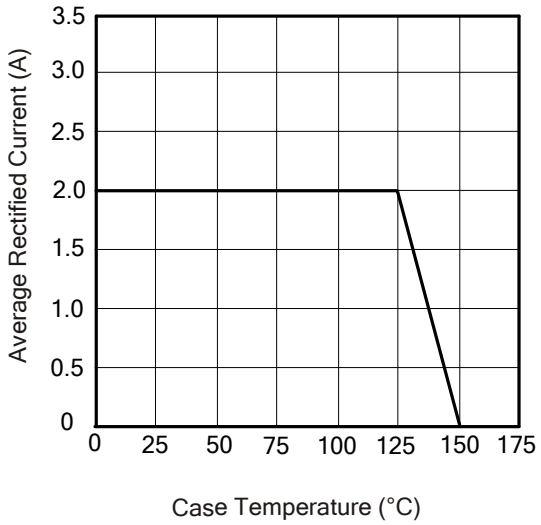
Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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

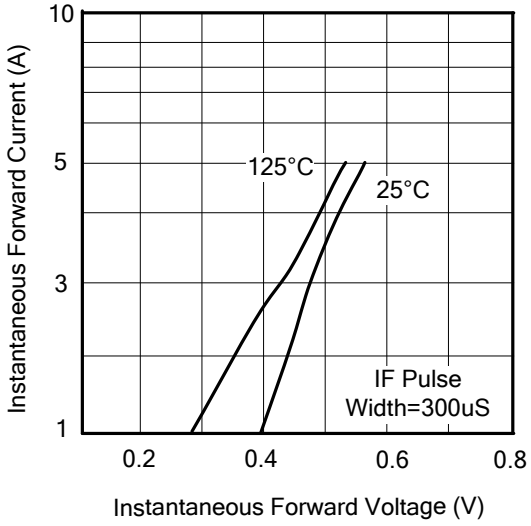
PARAMETER	SYMBOL	TEST CONDITIONS	RATINGS					UNIT
			SR22	SR23	SR24	SR25	SR26	
Maximum Instantaneous Forward Voltage	V_F	I_F=2.0A	0.50	0.50	0.50	0.65	0.65	V
		I_F=6.0A	0.80	0.80	0.80	0.90	0.90	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_J=25°C	2.0	2.0	2.0	2.0	2.0	mA
		T_J=125°C	50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

■ TYPICAL CHARACTERISTICS

Forward Derating Curve



Typical Forward Characteristics



Typical Reverse Characteristics