



## SR24

DIODE

### MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

#### DESCRIPTION

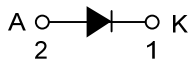
The UTC **SR24** is a Schottky Rectifier with high current capacity, ultra low thermal resistance, Low reverse leakage and low forward voltage.

The UTC **SR24** is suitable for surface mount applications.

#### FEATURES

- \* High Current Capability
- \* Built-in strain relief
- \* High surge capacity
- \* Low Forward Voltage
- \* Low Reverse Leakage

#### SYMBOL



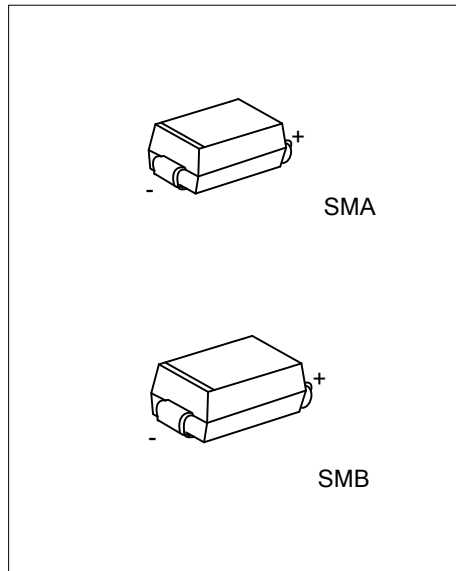
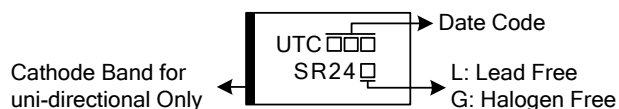
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SR24L-SMA-R	SR24G-SMA-R	SMA	K	A	Tape Reel
SR24L-SMB-R	SR24G-SMB-R	SMB	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SR24L-SMA-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel (2) SMA: SMA, SMB: SMB (3) L: Lead Free, G: Halogen Free</p>
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#### MARKING



### ■ ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
RMS Voltage	$V_{RMS}$	28	V
DC Blocking Voltage	$V_R$	40	V
Average Forward Rectified Output Current	$I_O$	2.0	A
Junction Temperature	$T_J$	+150	°C
Storage Temperature	$T_{STG}$	-50~+125	°C

Note: 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.

### ■ THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	75	°C/W

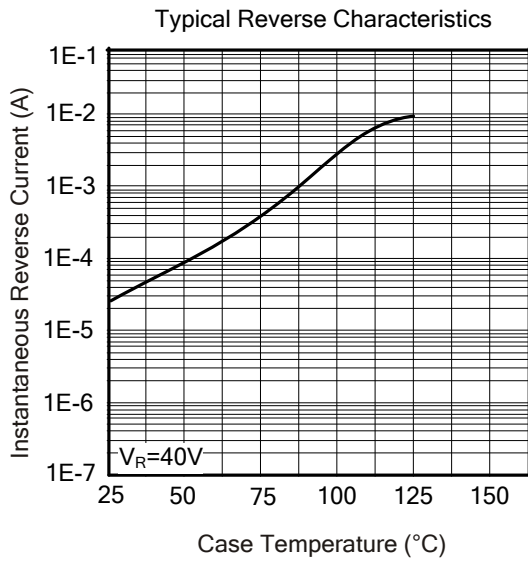
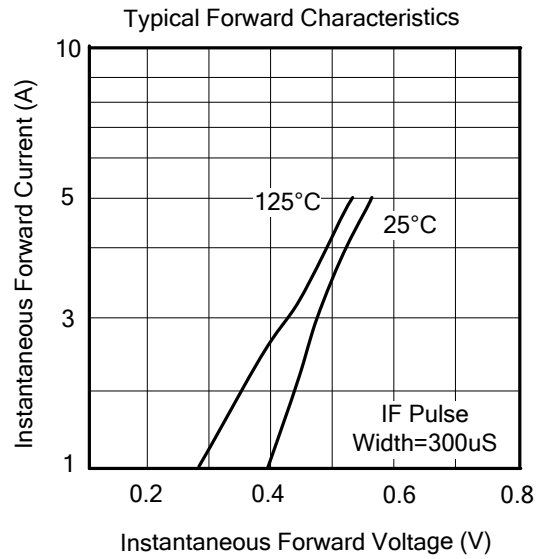
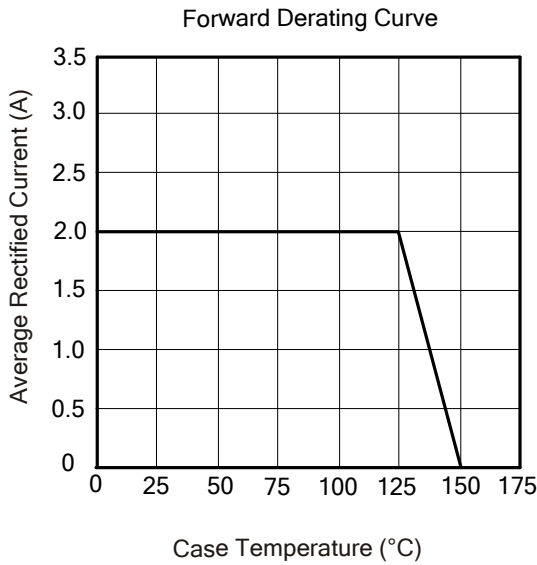
### ■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50.0	A
Instantaneous Forward Voltage at 2.0A (Note 1)	$V_F$	0.5	V
DC Reverse Current $T_A=25^\circ\text{C}$ (Note 1)	$I_R$	0.5	mA
At Rated DC Blocking Voltage $T_A=100^\circ\text{C}$		20.0	mA

Notes: 1. Pulse Test with  $PW=300\mu\text{s}$ , 2% Duty Cycle.

2. Mounted on P. C. Board with  $8.0\text{mm}^2$  (.013mm thick) copper pad areas.

■ 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.