



SR24

Preliminary

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.

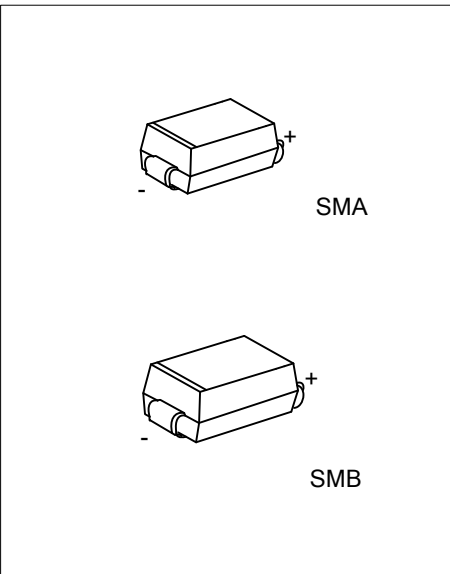
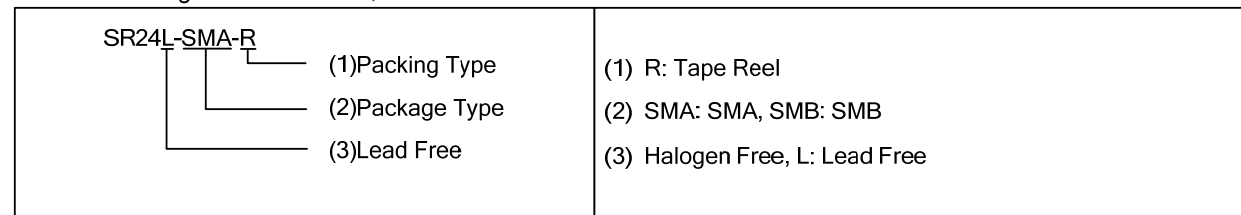
FEATURES

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

ORDERING INFORMATION

Table with 5 columns: Ordering Number (Lead Free, Halogen Free), Package (SMA, SMB), Pin Assignment (1, 2), and Packing (Tape Reel). Rows include SR24L-SMA-R, SR24G-SMA-R, SR24L-SMB-R, and SR24G-SMB-R.

Note: Pin Assignment: A: Anode, K: Cathode



### ■ 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	$V_{DC}$	40	V
Average Forward Rectified Current	$I_{(AV)}$	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 $\mu$ s, 2% Duty Cycle.

2. Mounted on P. C. Board with 8.0mm<sup>2</sup> (.013mm thick) copper pad areas.

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