



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

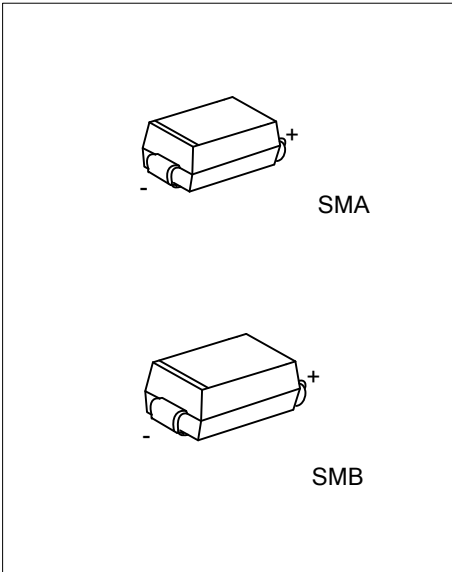
- * High Current Capability
- * Built-in strain relief
- * High surge capacity
- * Low Forward Voltage
- * Low Reverse Leakage

ORDERING INFORMATION

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) Halogen Free, L: Lead Free</p>
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■ 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	θ_{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 μ s, 2% Duty Cycle.

2. Mounted on P. C. Board with 8.0mm² (.013mm thick) copper pad areas.

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