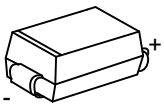
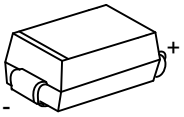
SR24 Preliminary ***DIODE***

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



SMA



SMB

■ 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

SR24L-SMA-R
(1)Packing Type
(2)Package Type
(3)Lead Free

(1) R: Tape Reel
(2) SMA: SMA, SMB: SMB
(3) Halogen Free, L: Lead Free

■ 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°C (Note 1)	I_R	0.5	mA
At Rated DC Blocking Voltage T_A=100°C		20.0	mA

Notes: 1. Pulse Test with PW=300μs, 2% Duty Cycle.
2. Mounted on P. C. Board with 8.0mm^2 (.013mm thick) copper pad areas.