

**BAT54SDW**

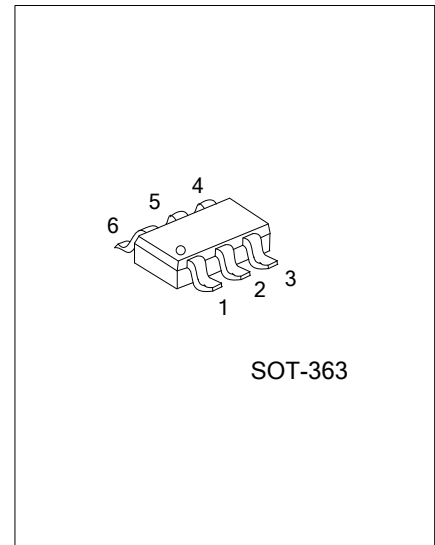
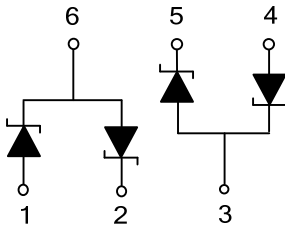
Preliminary

DIODE**SCHOTTKY BARRIER (DUAL)
DIODES****DESCRIPTION**

Planar Schottky barrier diodes are encapsulated in the SOT-363 small plastic SMD package. Single diodes and dual diodes with different pin configuration are available.

FEATURES

- * Low forward voltage
- * Guard ring protected
- * Small plastic SMD package

SYMBOL

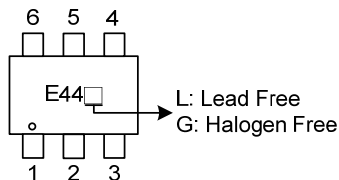
SOT-363

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
BAT54SDWL-AL6-R	BAT54SDWG-AL6-R	SOT-363	A1	K1	A2K2	A2	K2	A1K1	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

BAT54SDWL-AL6-R (1) Packing Type (2) Package Type (3) Lead Free	(1) R: Tape Reel (2) AL6: SOT-363 (3) G: Halogen Free, L: Lead Free
--	--

MARKING

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
PER DIODE			
Continuous Reverse Voltage	V_R	30	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current ($t_P < 1s, \delta \leq 0.5$)	I_{FRM}	300	mA
Non-repetitive Peak Forward Current ($t_P < 10ms$)	I_{FSM}	600	mA
Junction Temperature	T_J	+125	°C
Storage Temperature	T_{STG}	-60 ~ +150	°C
PER DEVICE			
Power Dissipation ($T_A \leq 25^\circ C$)	P_D	230	mW

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 DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	625	°C/W

■ ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ C$, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	$I_F = 0.1mA$			240	mV
		$I_F = 1mA$			320	mV
		$I_F = 10mA$			400	mV
		$I_F = 30mA$			500	mV
		$I_F = 100mA$			1000	mV
Reverse Current	I_R	$V_R = 25V$			2	μA
Reverse Recovery Time	t_{rr}	When switched from $I_F = 10mA$ to $I_R = 10mA$, $R_L = 100\Omega$ measured at $I_R = 1mA$			5	ns
Diode Capacitance	C_D	$f = 1 MHz, V_R = 1V$;			10	pF

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.