



## BAT54TDW

DIODE

### SCHOTTKY BARRIER (DUAL) DIODES

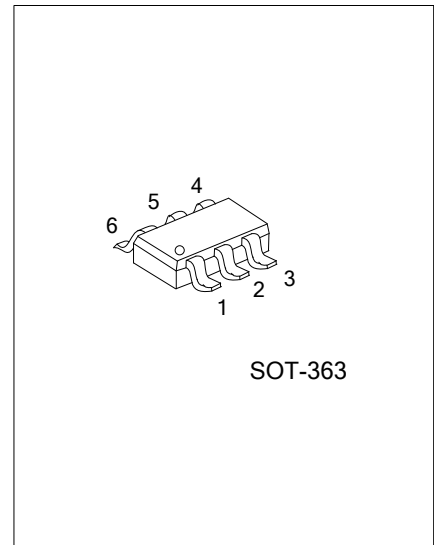
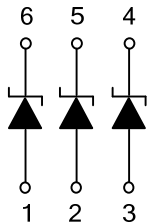
#### DESCRIPTION

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



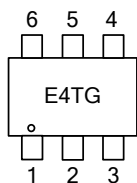
#### ORDERING INFORMATION

Ordering Number	Package	Pin Assignment						Packing
		1	2	3	4	5	6	
BAT54TDWG-AL6-R	SOT-363	A1	A2	A3	K3	K2	K1	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>BAT54TDWG-AL6-R</p>	<p>(1) R: Tape Reel</p> <p>(2) AL6: SOT-363</p> <p>(3) G: Halogen Free and Lead Free</p>
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#### MARKING



## ■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
<b>PER DIODE</b>			
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
<b>PER DEVICE</b>			
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	$\theta_{JA}$	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	$\mu A$
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

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