BAT54ADW DIODE

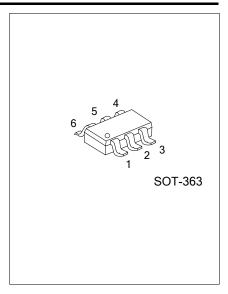
# SCHOTTKY BARRIER (DUAL) DIODES

# ■ DESCRIPTION

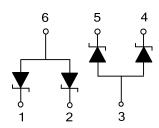
Planar Schottky barrier diodes are encapsulated in the SOT-363 small plastic SMD package. Single diodes and dual diodes with different pin configuration are available.

## ■ FEATURES

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



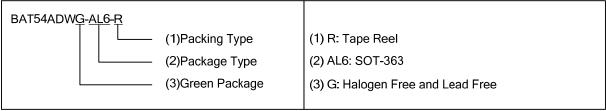
#### ■ SYMBOL



## ■ ORDERING INFORMATION

	Ordering Number	Package	Pin Assignment						Daalina	
			1	2	3	4	5	6	Packing	
	BAT54ADWG-AL6-R	SOT-363	K1	K1	A2	K2	K2	A1	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



#### ■ MARKING



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BAT54ADW DIODE

# ■ **ABSOLUTE MAXIMUM RATINGS** (T<sub>A</sub> = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT				
PER DIODE							
Continuous Reverse Voltage	$V_R$	30	V				
Continuous Forward Current	I <sub>F</sub>	200	mA				
Repetitive Peak Forward Current (t <sub>P</sub> <1s, δ≤0.5)	I <sub>FRM</sub>	300	mA				
Non-repetitive Peak Forward Current (t <sub>P</sub> <10ms)	I <sub>FSM</sub>	600	mA				
Junction Temperature	$T_J$	+125	°C				
Storage Temperature	T <sub>STG</sub>	-60 ~ +150	ů				
PER DEVICE							
Power Dissipation (T <sub>A</sub> ≤25°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<sub>A</sub> = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
		$I_F = 0.1 \text{mA}$			240	mV
		I <sub>F</sub> = 1mA			320	mV
Forward Voltage	$V_{F}$	I <sub>F</sub> = 10mA			400	mV
		I <sub>F</sub> = 30mA			500	mV
		I <sub>F</sub> = 100mA			1000	mV
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 25V			2	μΑ
		When switched from I <sub>F</sub> =10mA				
Reverse Recovery Time		to $I_R$ = 10mA, $R_L$ = 100 $\Omega$			5	ns
		measured at I <sub>R</sub> = 1mA				
Diode Capacitance	C <sub>D</sub>	$f = 1 MHz, V_R = 1V;$			10	рF

BAT54ADW DIODE

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