BAT54CDW DIODE

SCHOTTKY BARRIER (DUAL) DIODES

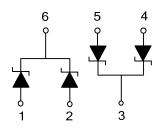
■ DESCRIPTION

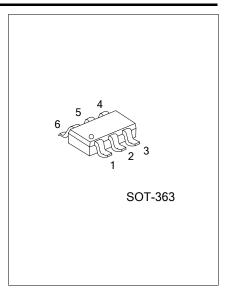
Planar Schottky barrier diodes are encapsulated in the SOT-363 small plastic SMD package. Single diodes and dual diodes with different pin configuration are available.

■ FEATURES

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

■ SYMBOL

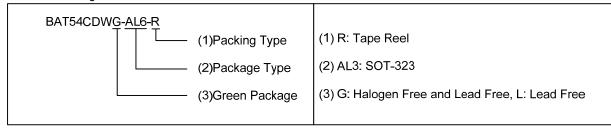




■ ORDERING INFORMATION

Ordering Number		Daalaaaa	Pin Assignment					Darkins	
Lead Free	Halogen Free	Package	1	2	3	4	5	6	Packing
BAT54CDWL-AL3-R	BAT54CDWG-AL6-R	SOT-363	A1	A1	K2	A2	A2	K1	Tape Reel

Note: Pin Assignment: E: Emitter B: Base C: Collector



■ MARKING



www.unisonic.com.tw 1 of 3

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■ **ABSOLUTE MAXIMUM RATINGS** (T_A = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT			
PER DIODE	•		I.			
Continuous Reverse Voltage	V_R	30	V			
Continuous Forward Current	I _F	200	mA			
Repetitive Peak Forward Current (t _P <1s, δ≤0.5)	I _{FRM}	300	mA			
Non-repetitive Peak Forward Current (t _P <10ms)	I _{FSM}	600	mA			
Junction Temperature	TJ	+125	°C			
Storage Temperature	T _{STG}	-60 ~ +150	°C			
PER DEVICE						
Power Dissipation (T _A ≤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	θ_{JA}	625	°C/W

■ **ELECTRICAL CHARACTERISTICS** (T_A = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V _F	$I_F = 0.1 \text{mA}$			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	μΑ
		When switched from I _F =10mA				
Reverse Recovery Time		to $I_R = 10$ mA, $R_L = 100\Omega$			5	ns
		measured at I _R = 1mA				
Diode Capacitance	Ср	$f = 1 MHz, V_R = 1V;$			10	pF

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