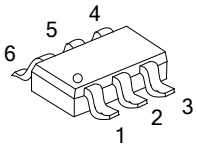
BAT54CDW

DIODE

SCHOTTKY BARRIER (DUAL) DIODES



SOT-363

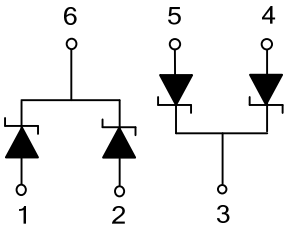
■ DESCRIPTION

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

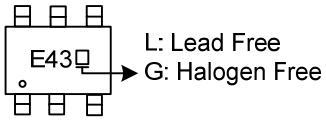
Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
BAT54CDWL-AL3-R	BAT54CDWG-AL6-R	SOT-363	A1	A1	K2	A2	A2	K1	Tape Reel

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

BAT54CDWG-AL6-R

(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) AL3: SOT-323
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING



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

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, δ≤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≤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 = 0.1mA			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 = 100Ω measured at I_R = 1mA			5	ns
Diode Capacitance	C_D	f = 1 MHz, V_R = 1V;			10	pF