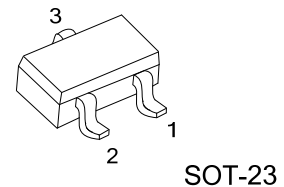
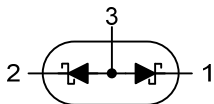


**BAT54A****DIODE****SCHOTTKY BARRIER (DUAL)
DIODES****DESCRIPTION**

Planar Schottky barrier diodes are encapsulated in the SOT-23 small plastic SMD package. Single diodes and dual diodes with different pin configuration are available.

FEATURES

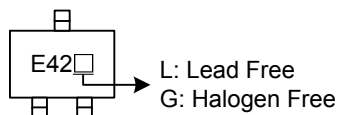
- * Low forward voltage
- * Guard ring protected
- * Small plastic SMD package

SYMBOL**ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BAT54AL-AE3-R	BAT54AG-AE3-R	SOT-23	K1	K2	A2A1	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

BAT54AL-AE3-R (1)Packing Type (2)Package Type (3)Lead Free		(1) R: Tape Reel (2) AE3: SOT-23 (3) G: Halogen Free, L: Lead Free
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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}	500	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (See Fig.1)	V_F	$I_F = 0.1mA$			240	mV
		$I_F = 1mA$			320	mV
		$I_F = 10mA$			400	mV
		$I_F = 30mA$			500	mV
		$I_F = 100mA$			800	mV
Reverse Current (See Fig.2)	I_R	$V_R = 25V$			2	μA
Reverse Recovery Time (see Fig.4)	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 (see Fig.3)	C_D	$f = 1 MHz, V_R = 1V$			10	pF

■ TYPICAL CHARACTERISTICS

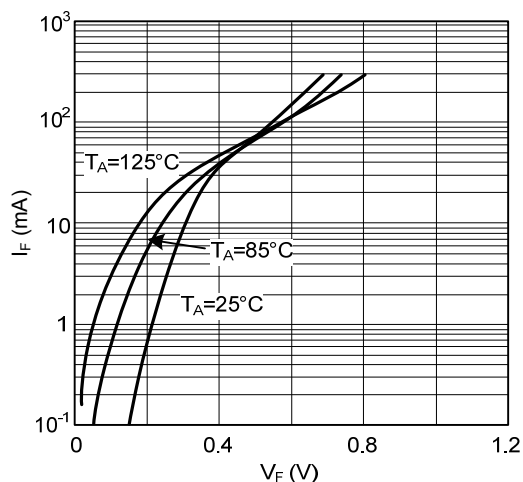


Fig.1 Forward current as a function of forward voltage; typical values.

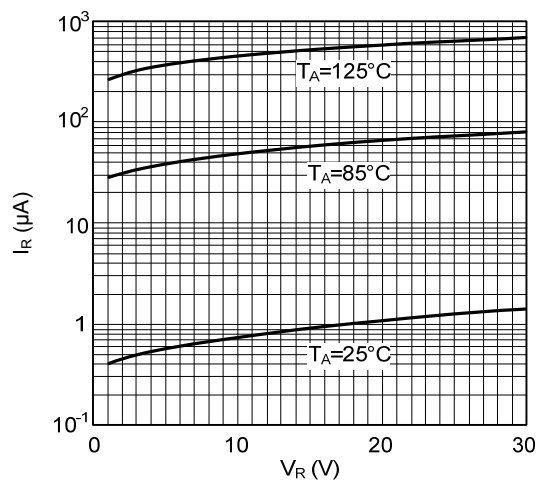


Fig.2 Reverse current as a function of reverse voltage; typical values.

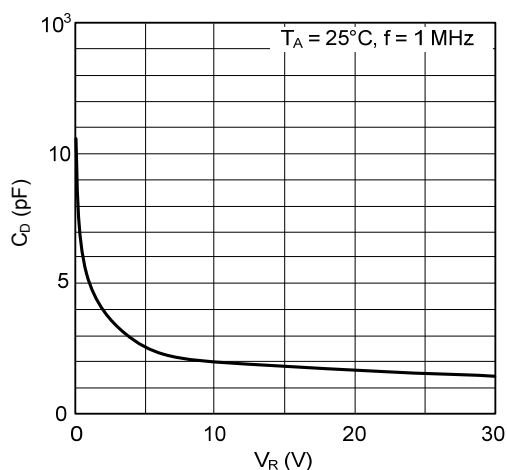


Fig.3 Diode capacitance as a function of reverse voltage; typical values.

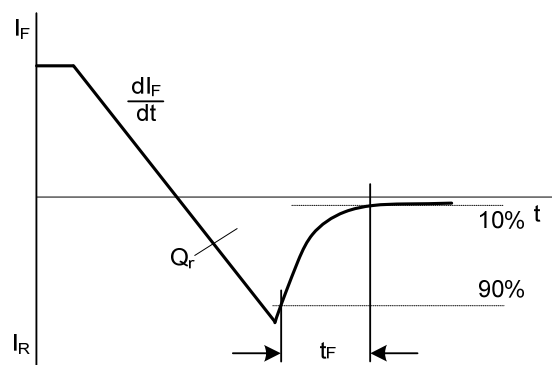


Fig.4 Reverse recovery definitions

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