



## BAT64A

DIODE

### SCHOTTKY BARRIER (DUAL) DIODES

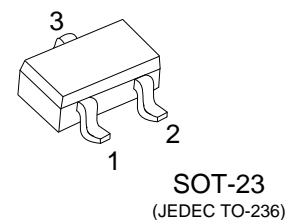
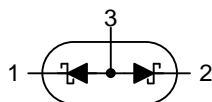
#### DESCRIPTION

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



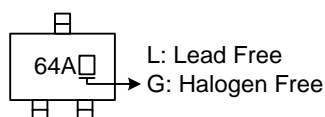
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BAT64AL-AE3-R	BAT64AG-AE3-R	SOT-23	K1	K2	A1A2	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>BAT64AG-AE3-R</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Green Package</p>	<p>(1) R: Tape Reel</p> <p>(2) AE3: SOT-23</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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#### MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
<b>PER DIODE</b>			
Continuous Reverse Voltage	V <sub>R</sub>	40	V
Continuous Forward Current	I <sub>F</sub>	250	mA
Average rectified forward current (50/60Hz, sinus)	I <sub>FAV</sub>	120	mA
Non-repetitive Peak Forward Current (t <sub>p</sub> <10ms)	I <sub>FSM</sub>	800	mA
Junction Temperature	T <sub>J</sub>	+125	°C
Storage Temperature	T <sub>STG</sub>	-60 ~ +150	°C
<b>PER DEVICE</b>			
Power Dissipation (T <sub>A</sub> ≤25°C)	P <sub>D</sub>	250	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.

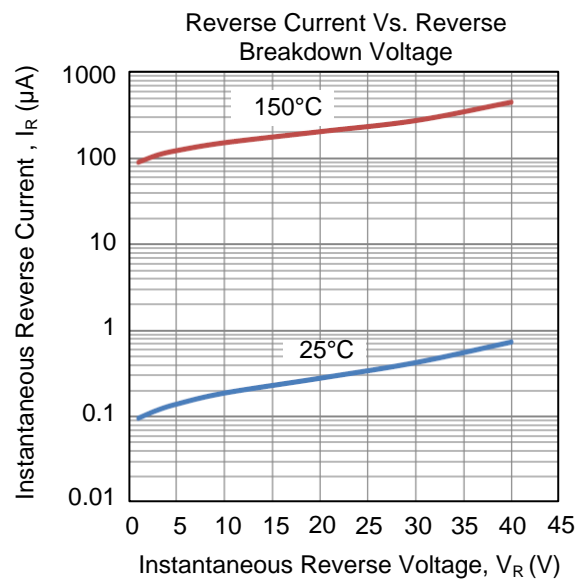
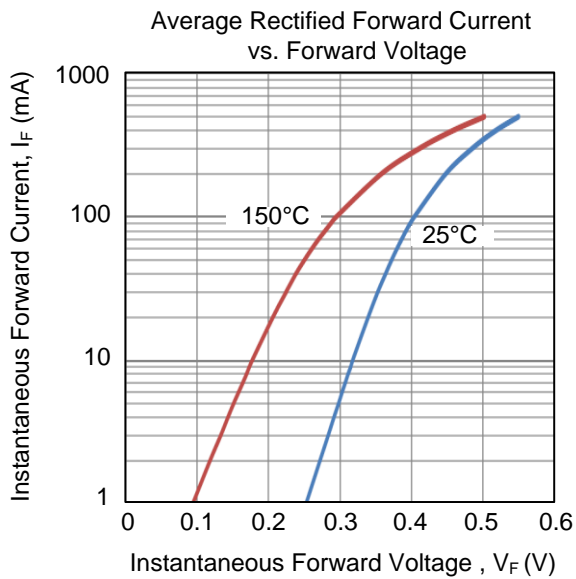
## ■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ <sub>JA</sub>	500	°C/W

## ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (See Fig.1)	V <sub>F</sub>	I <sub>F</sub> =1mA			350	mV
		I <sub>F</sub> =10mA			430	mV
		I <sub>F</sub> =30mA			520	mV
		I <sub>F</sub> =100mA			750	mV
Reverse Current (See Fig.2)	I <sub>R</sub>	V <sub>R</sub> =30V			2	μA
Reverse Recovery Time (see Fig.4)	t <sub>rr</sub>	When switched from I <sub>F</sub> =10mA I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω measured at I <sub>R</sub> =1mA			5	ns

## ■ TYPICAL CHARACTERISTICS



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