

# BAT64-04W~BAT64-06W

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 40 Volt **CURRENT** 0.25Ampere

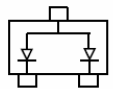
**SOT-323** Unit:mm

### FEATURES

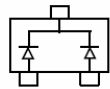
- Integrated diffused guard ring
- Low forward voltage
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

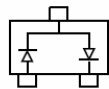
- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



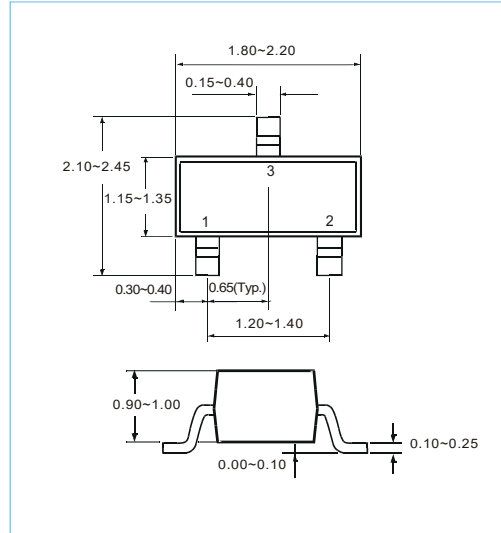
BAT64-06W MARKING:66S



BAT64-05W MARKING:65S



BAT64-04W MARKING: 64S



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS( $T_A = 25^\circ\text{C}$ unless otherwise noted)

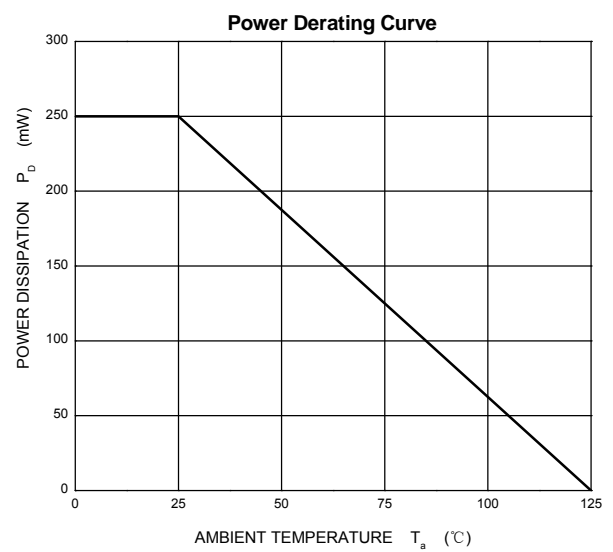
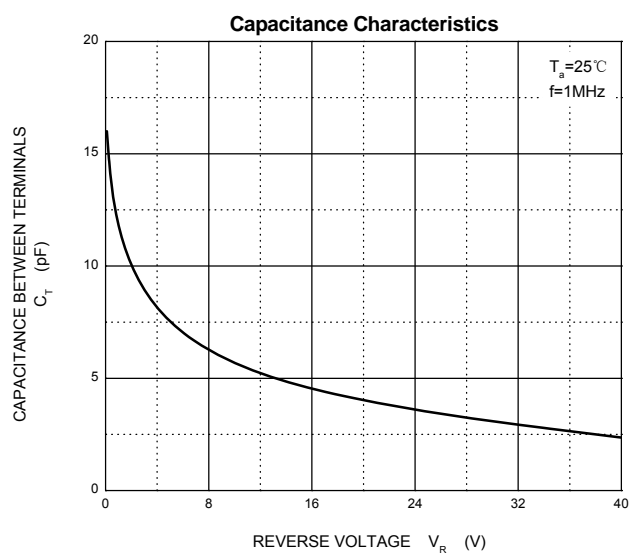
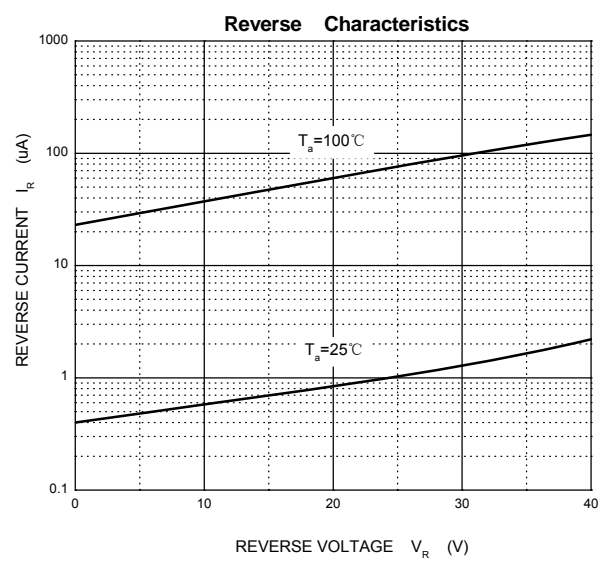
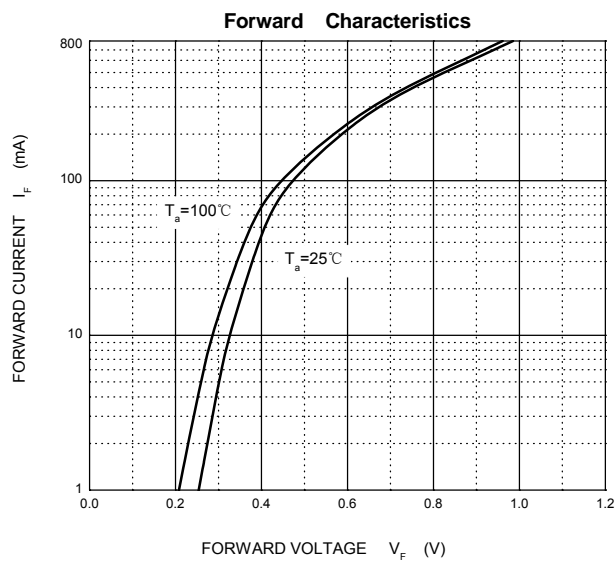
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	250	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	800	mA
Power Dissipation	$P_D$	250	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	400	$^\circ\text{C/W}$
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55~+150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	40			V	$I_R=10\mu\text{A}$
Forward voltage	$V_F$			0.35	V	$I_F=1\text{mA}$
				0.43	V	$I_F=10\text{mA}$
				0.52	V	$I_F=30\text{mA}$
				0.75	V	$I_F=100\text{mA}$
Reverse current	$I_R$			2	$\mu\text{A}$	$V_R=25\text{V}$
Diode capacitance	$C_D$		6		pF	$V_R=1\text{V}, f=1\text{MHz}$

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## Typical Characteristics

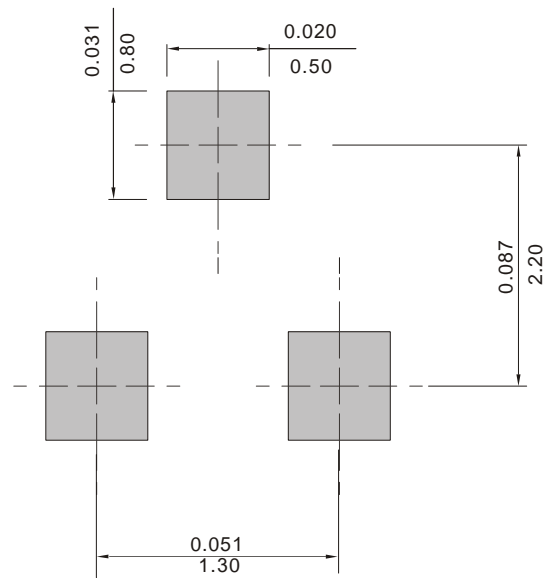


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## MOUNTING PAD LAYOUT

SOT-323

Unit:Inch(mm)



## ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAT64-04W~BAT64-06W	SOT-323	7 Inch	3000