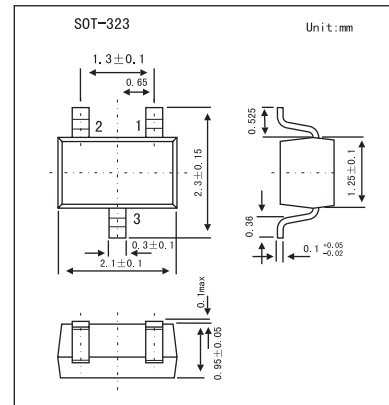


## Silicon Schottky Diodes

**BAT64W;BAT64-04W**  
**BAT64-05W;BAT64-06W**
**■ Features**

- For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- Integrated diffused guard ring
- Low forward voltage


**■ Absolute Maximum Ratings Ta = 25 °C**

Parameter	Symbol	Value	Unit
Diode reverse voltage	V <sub>R</sub>	40	V
Forward current	I <sub>F</sub>	250	mA
Average forward current (50/60Hz, sinus)	I <sub>FAV</sub>	120	mA
Surge forward current (t < 100ms)	I <sub>FSM</sub>	800	mA
Total power dissipation BAT 64W, T <sub>s</sub> ≤ 120 °C	P <sub>tot</sub>	250	mW
Total power dissipation BAT64-04/06W, T <sub>s</sub> ≤ 111 °C	P <sub>tot</sub>	250	mW
Total power dissipation BAR 64-05W, T <sub>s</sub> ≤ 104 °C	P <sub>tot</sub>	250	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-50 to +150	°C
Junction - ambient (Note 1) BAT 64W	R <sub>thJA</sub>	≤ 255	K/W
Junction - ambient (Note 1) BAT 64-04/06W	R <sub>thJA</sub>	≤ 290	
Junction - ambient (Note 1) BAT 64-05W	R <sub>thJA</sub>	≤ 455	
Junction - soldering point BAT 64W	R <sub>thJS</sub>	≤ 120	K/W
Junction - soldering point BAT 64-04/06W	R <sub>thJS</sub>	≤ 155	
Junction - soldering point BAT 64-05W	R <sub>thJS</sub>	≤ 185	

**Note**

1.Package mounted on epoxy pcb 40mm × 40mm × 1.5mm / 6cm<sup>2</sup> Cu

**BAT64W;BAT64-04W**  
**BAT64-05W;BAT64-06W**

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	$I_R$	$V_R = 30\text{ V}$			2	$\mu\text{ A}$
		$V_R = 30\text{ V}, T_A = 85^\circ\text{C}$			200	
Forward voltage	$V_F$	$I_F = 1\text{ mA}$		320	350	$\text{mV}$
		$I_F = 10\text{ mA}$		380	430	
		$I_F = 30\text{ mA}$		440	520	
		$I_F = 100\text{ mA}$		570	750	
Diode capacitance	$C_T$	$V_R = 1\text{ V}, f = 1\text{ MHz}$		4	6	$\text{pF}$

■ Marking

Type	BAT64W	BAT64-04W	BAT64-05W	BAT64-06W
Marking	63s	64s	65s	66s