



## **SOT -23 Plastic-Encapsulate Schottky Barrier Diode**

#### **Features**

- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed





**SOT-23** 

## **Mechanical Data**

• SOD-23 Small Outline Plastic Package

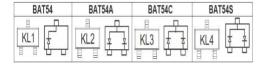
• Epoxy UL: 94V-0

• Mounting Position: Any

### Pin definition

#### **Epuivalent circuit**





Maximum Ratings& Thermal Characteristic(TA=25°C unless otherwise noted)					
Parameters	Symbol	Value	Unit		
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	V		
Maximum RMS voltage	V <sub>RMS</sub>	21	V		
Maximum DC blocking voltage	V <sub>D</sub> c	30	V		
Typical thermal resistance	R <sub>eJA</sub>	500	°C/W		
Junction Temperature	TJ	125 ℃			
Storage temperature range	T <sub>STG</sub>	-55-+150	$^{\circ}$		
Power Dissipation	P <sub>D</sub>	200	mW		
Non-repetitive Peak Forward Current	I <sub>FM</sub>	200 mA			
Peak forward surge current 8.3 ms single half sine-wave	I <sub>FSM</sub>	600	mA		

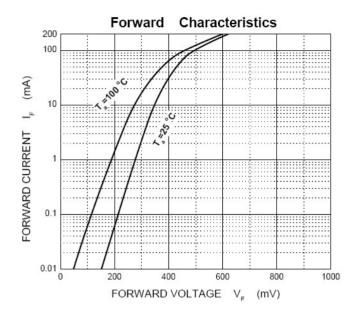
Electrical Characteristics(TA=25°C unless otherwise noted)							
	Symbol	Test Condition	Limits		11		
Parameters			Min	Max	Unit		
Maximum forward voltage	VF	IF=0.1mA		240	mV		
		IF=1.0mA		320			
		IF=10mA		400			
		IF=30mA		500			
		IF=100mA		1000			
Maximum reverse breakdown voltage	VR	IR=100uA	30		V		
Maximum reverse current	IR	VR=25V		2.0	nA		
Reverse Recovery time	Trr	IF= IR=10mA		5	nS		
		RL=100 Ω					
		IRR=0.1 X IR					
Type junction capacitance	Ст	VR=0V, f=1MHZ		10	pF		

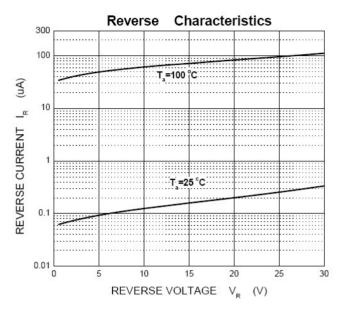


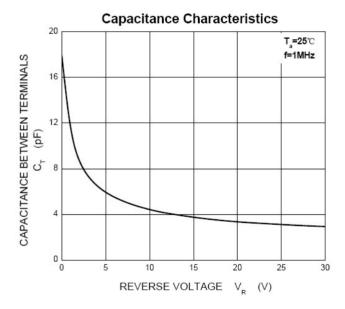


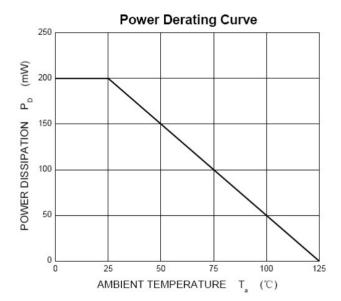
## **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)





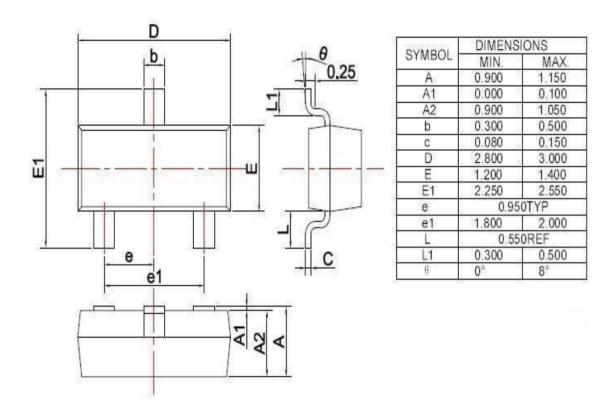








# Package Outline Dimensions millimeters



## **Revision History**

Document Version	Date of release	Description of changes
Rev.A	2017.02.16	First issue



#### GOOD-ARK Electronics

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