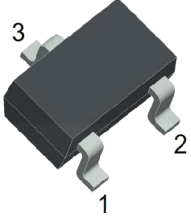


Schottky Barrier Diodes	SOT-23 Plastic-Encapsulate Diodes
<p><u>SOT-23</u></p> 	<p>Features</p> <ul style="list-style-type: none"> <li>High Conductance</li> <li>Fast Switching Speed</li> <li>For General Purpose Switching Application</li> <li>Surface Mount Package Ideally Sited for Automatic In-line</li> </ul>

BAT54	BAT54A	BAT54C	BAT54S
<b>MARKING: KL1</b>	<b>MARKING: KL2</b>	<b>MARKING: KL3</b>	<b>MARKING: KL4</b>

Solid dot = Green molding compound device, if none, hermetically sealed device.

### Maximum Ratings (@Ta=25°C)

Parameter	Symbol	Limit	Unit
Peak Repetitive Reverse Voltage	VRRM	30	V
Working Peak Reverse Voltage	VRWM	30	V
DC Blocking Voltage	VR	30	V
Forward Continuous Current	IFM	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	600	mA
Repetitive Peak Forward Current @ t 1s, 0.5	IFRM	300	mA
Power Dissipation	PD	200	mW
Thermal Resistance from Junction to Ambient	RJA	500	°C/W
Junction Temperature	TJ	125	°C
Storage Temperature Range	TSTG	-55~+150	°C

Electrical Characteristics (@Ta=25°C unless otherwise specified)							
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Reverse voltage	V(BR)	IR=100μA	30			V	
Forward voltage	VF1	IF=0.1mA			0.24	V	
	VF2	IF=1mA			0.32	V	
	VF3	IF=10mA			0.4	V	
	VF4	IF=30mA			0.5	V	
	VF5	IF=100mA			1	V	
Reverse current	IR	VR=25V			2	μA	
Diode Capacitance	Ctot	VR=0V, f=1MHz			10	PF	
Reverse recovery time	trr	IF=IR=10mA, Irr=0.1×IR, RL= 100 Ω			5	nS	

**Forward Characteristics**

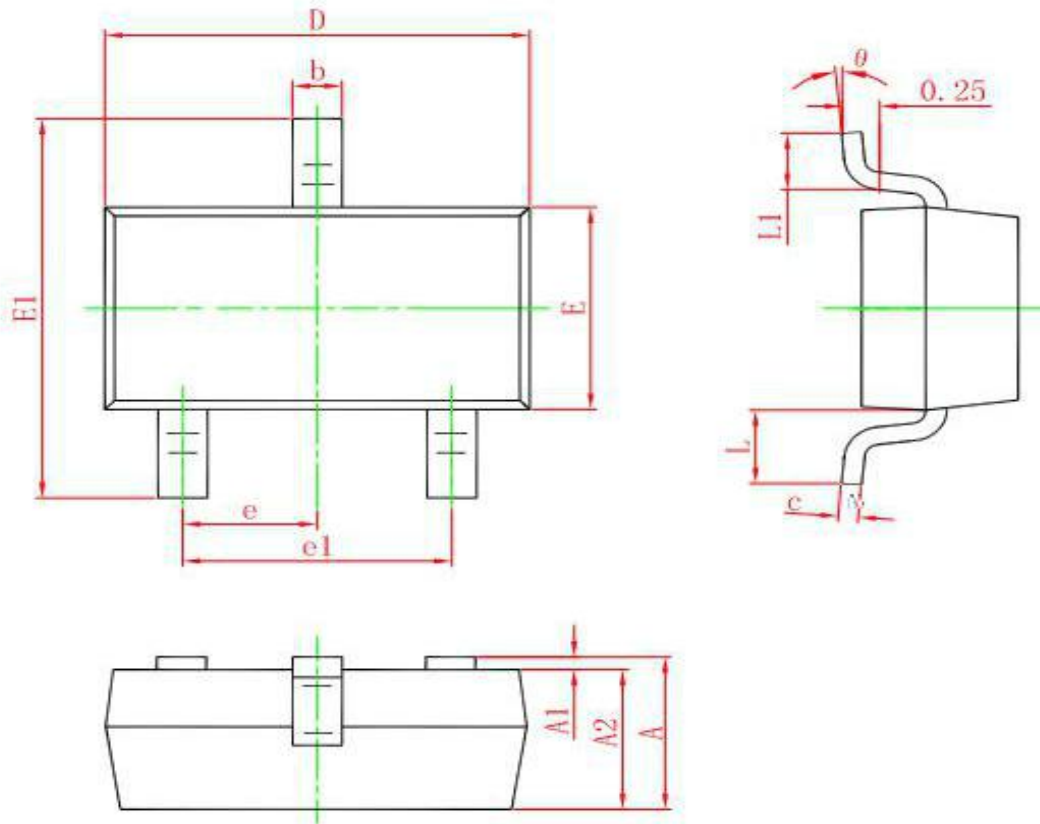
**Reverse Characteristics**

**Capacitance Characteristics**

**Power Dissipation Characteristics**

SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters	Dimensions In Inches
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