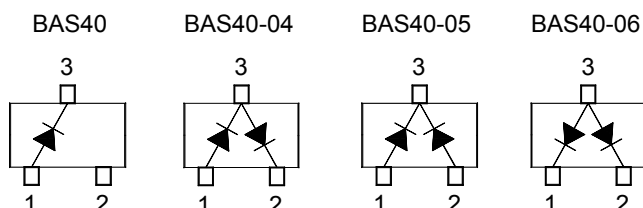
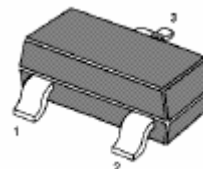


SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low forward voltage
- Fast switching



SOT-23 Plastic Package

BAS40 Marking Code: **43**
 BAS40-04 Marking Code: **44**
 BAS40-05 Marking Code: **45**
 BAS40-06 Marking Code: **46**

Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current (at $t_p < 1\text{ s}$)	I_{FSM}	600	mA
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^{\circ}\text{C}$

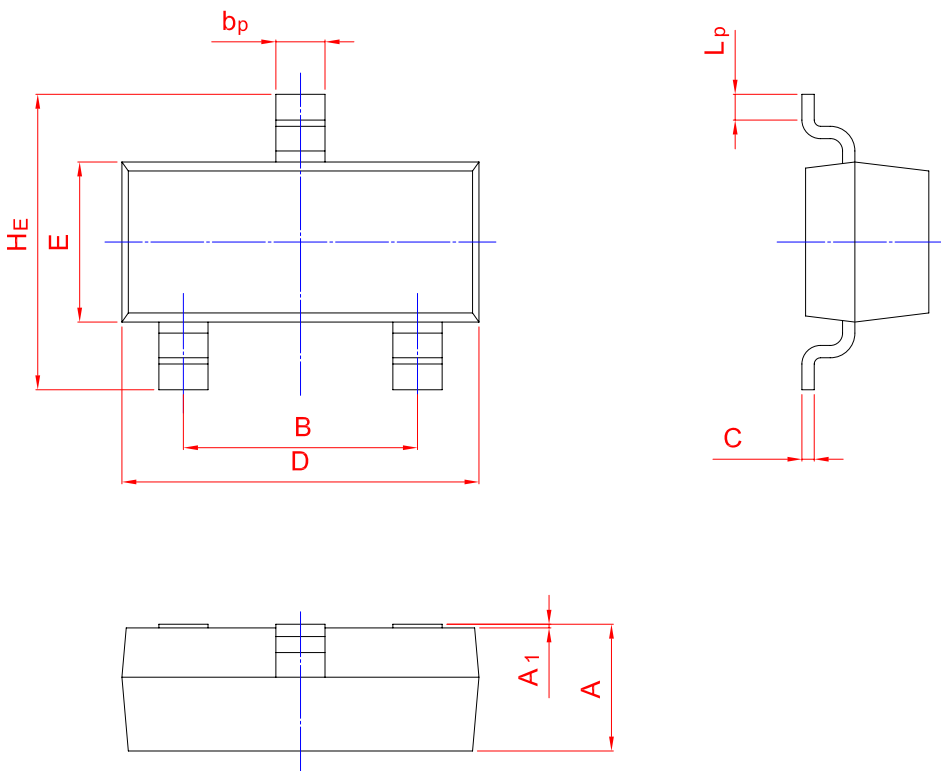
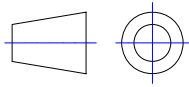
Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$	V_F	-	380	mV
at $I_F = 40\text{ mA}$	V_F	-	1000	mV
Reverse Current at $V_R = 30\text{ V}$	I_R	-	200	nA
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_{(BR)R}$	40	-	V
Reverse Recovery Time from $I_F = 10\text{ mA}$ through $I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$	t_{rr}	-	5	ns
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	5	pF

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20