

BAS40/-04/-05/-06

PRV : 40 Volts

Io : 200 mA

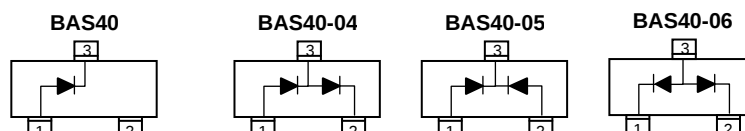
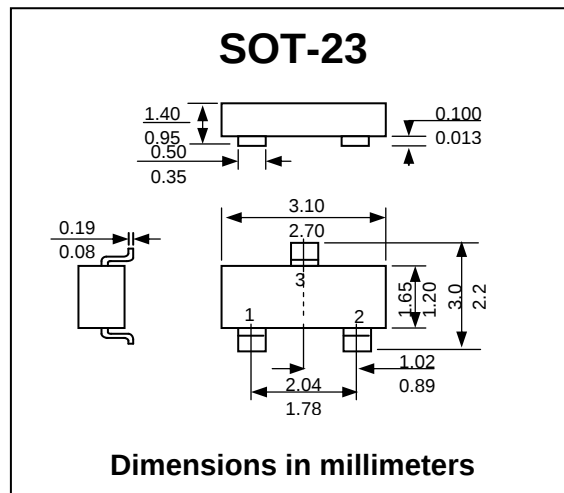
FEATURES :

- * Low forward voltage
- * Fast switching
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOT-23 plastic Case
- * BAS40 Marking Code : 43
- * BAS40-04 Marking Code : 44
- * BAS40-05 Marking Code : 45
- * BAS40-06 Marking Code : 46

SURFACE MOUNT SCHOTTKY BARRIER DIODE



ABSOLUTE MAXIMUM RATINGS⁽¹⁾ (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Maximum Rectified Average Forward Current	$I_{F(AV)}$	200	mA
Maximum Peak Forward Surge Current at $t_p < 1$ s	I_{FSM}	600	mA
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 10\mu A$	$V_{(BR)}$	40	-	-	V
Reverse Current	$V_R = 30$ V	I_R	-	-	200	nA
Forward Voltage	$I_F = 1$ mA	V_F	-	-	380	mV
	$I_F = 40$ mA	V_F	-	-	1000	mV
Reverse Recovery Time	$I_F = 10$ mA through $I_R = 10$ mA to $I_R = 1$ mA	t_{rr}	-	-	5.0	ns
Diode Capacitance	$V_R = 0$ V, $f = 1$ MHz	C_{tot}	-	-	5.0	pF