

BAS40W/-04W/-05W/-06W

SMALL SIGNAL SCHOTTKY DIODE, SINGLE & DUAL

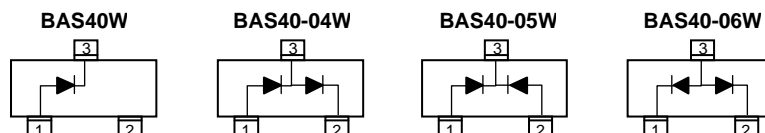
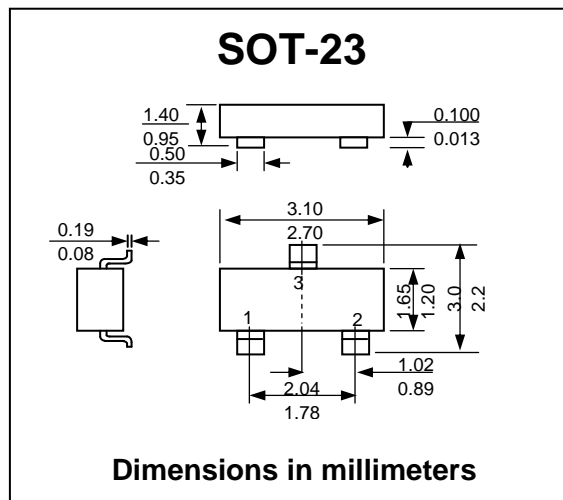
PRV : 40 Volts
Io : 200 mA

FEATURES :

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

MECHANICAL DATA :

- * Case : SOT-23 plastic Case
- * BAS40W Marking Code : 43
- * BAS40-04W Marking Code : 44
- * BAS40-05W Marking Code : 45
- * BAS40-06W Marking Code : 46



MAXIMUM RATINGS AND THERMAL CHARACTERISTICS (Ta = 25 °C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum Working Peak Reverse Voltage	V_{RWM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Maximum Forward Continuous Current	I_F	200	mA
Maximum Peak Forward Surge Current at $t_p < 1$ s	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C, unless otherwise specified.)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 10 \mu A$ (pulses)	$V_{(BR)}$	40	-	-	V
Leakage Current	$V_R = 30$ V	I_R	-	-	200	nA
Forward Voltage	$I_F = 1.0$ mA	V_F	-	-	380	mV
	$I_F = 40$ mA	V_F	-	-	1000	mV
Diode Capacitance	$V_R = 0$ V, $f = 1$ MHz	C_{tot}	-	-	5	pF
Reverse Recovery Time	$I_F = 10$ mA, $I_R = 10$ mA, $I_{rr} = 1$ A	T_{rr}	-	-	5	ns