

BAS70/-04/-05/-06

PRV : 70 Volts
Io : 200 mA

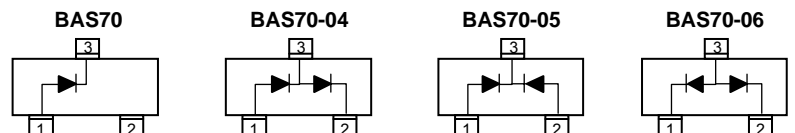
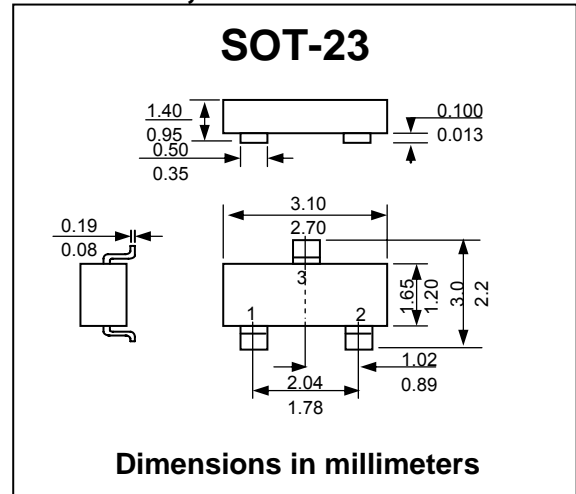
FEATURES :

- * These diodes feature very low turn-on voltage
- * Fast switching
- * These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOT-23 plastic Case
- * BAS70 Marking Code : 73
- * BAS70-04 Marking Code : 74
- * BAS70-05 Marking Code : 75
- * BAS70-06 Marking Code : 76

SMALL SIGNAL SCHOTTKY DIODE, SINGLE & DUAL



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

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Maximum Working Peak Reverse Voltage	V_{RWM}	70	V
Maximum DC Blocking Voltage	V_R	70	V
Maximum Forward Continuous Current	I_F	200 ⁽¹⁾	mA
Maximum Peak Forward Surge Current at $t_p < 1$ s	I_{FSM}	600 ⁽¹⁾	mA
Total Power Dissipation	P_{tot}	200 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	430 ⁽¹⁾	K/W
Junction Temperature Range	T_J	125	°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)	$V_{(BR)}$	70	-	-	V
Leakage Current	$V_R = 50$ V	I_R	-	20	100	nA
Forward Voltage (Note 2)	$I_F = 1.0$ mA	V_F	-	-	410	mV
	$I_F = 15$ mA	V_F	-	-	1	V
Diode Capacitance	$V_R = 0$ V, $f = 1$ MHz	C_{tot}	-	1.5	2	pF
Reverse Recovery Time	$I_F = 10$ mA, $I_R = 10$ mA, $I_{rr} = 1$ A, $R_L = 100 \Omega$	T_{rr}	-	-	5	ns

Notes :

- (1) Device on fiberglass substrate
- (2) Pulse test $t_p < 300 \mu s$