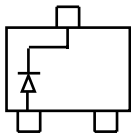


FEATURES

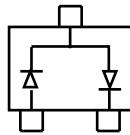
Low turn-on voltage

Fast switching

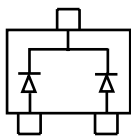
Also available in lead free version



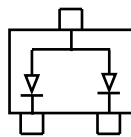
BAS70



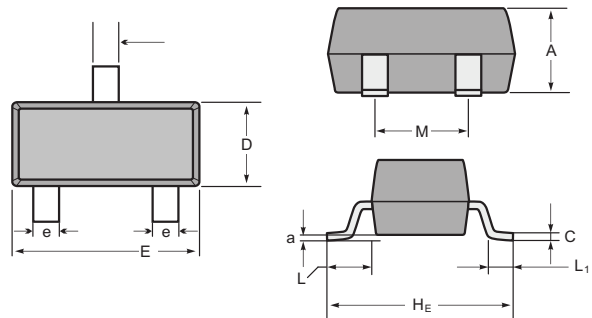
BAS70-04



BAS70-05



BAS70-06



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

MAXIMUM RATINGS @T_a=25°C

Symbol	Parameter	Value	Unit
V _R	DC Voltage	70	V
I _F	Forward Continuous Current	70	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	100	mA
P _D	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance Junction to Ambient	500	°C/W
T _J	Junction Temperature	125	°C
T _{stg}	Storage Temperature	-55~+150	°C

BAS70/-04/-05/-06

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10\mu A$	70		V
Reverse voltage leakage current	I_R	$V_R = 50V$		100	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 15mA$		410 1000	mV
Diode capacitance	C_D	$V_R = 0V$ $f = 1MHz$		2	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10mA$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$		5	ns

RATING AND CHARACTERISTIC CURVES (BAS70/-04/-05/-06)

