

»Features

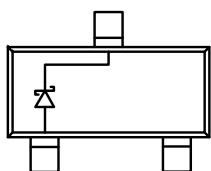
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



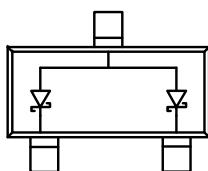
»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOT-23 Plastic Package

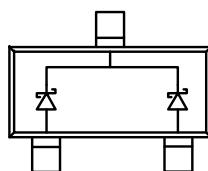
»Circuit and Marking



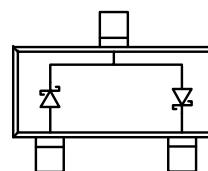
BAS70: 73



BAS70-06:76



BAS70-05: 75



BAS70-04:74

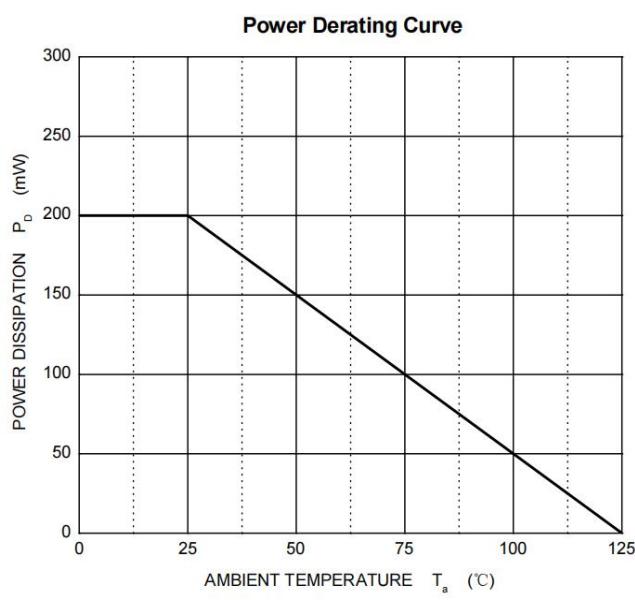
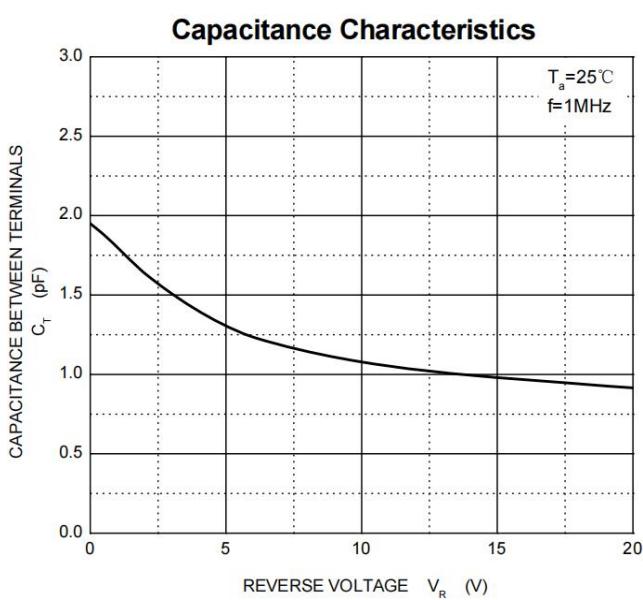
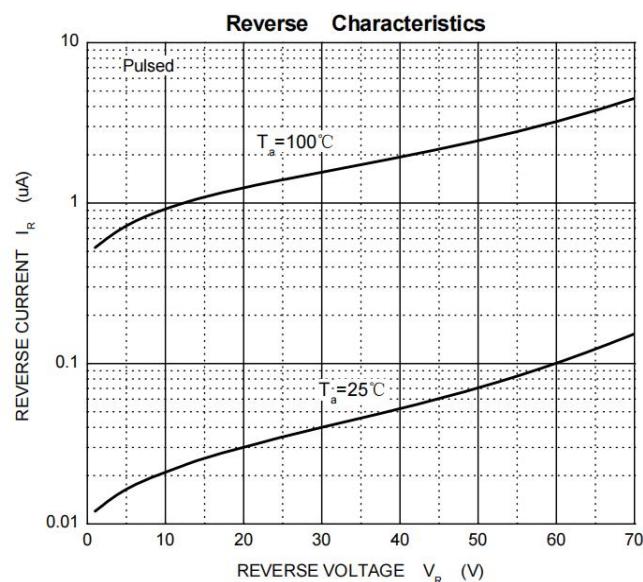
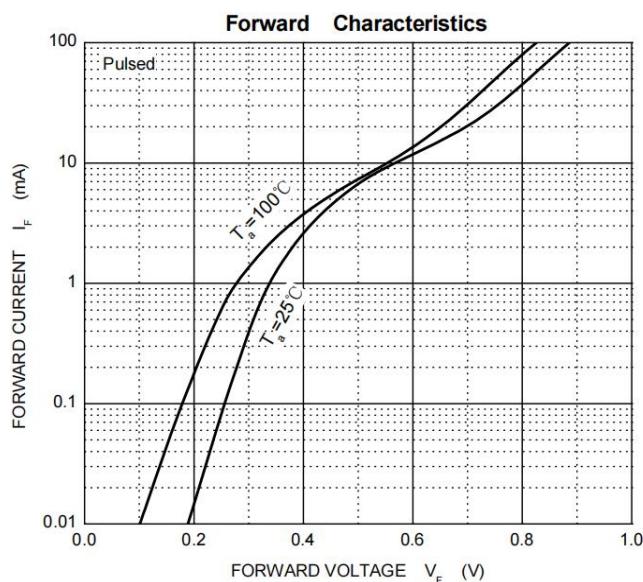
» Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Unit
VRRM	Peak Repetitive Peak Reverse Voltage		
VRWM	Working Peak Reverse Voltage	70	V
VR	DC Blocking Voltage		
IFM	Forward Continuous Current	70	mA
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	100	mA
Pd	Power Dissipation	200	mW
R Θ JA	Thermal Resistance From Junction To Ambient	450	°C/W
T _J	Operation Junction Temperature Range	-40~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

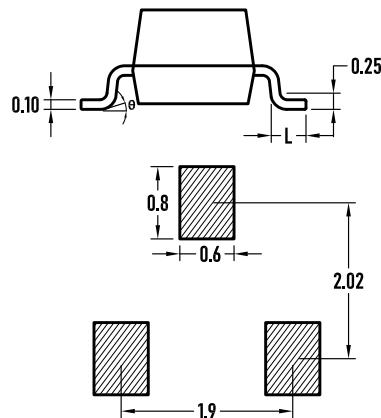
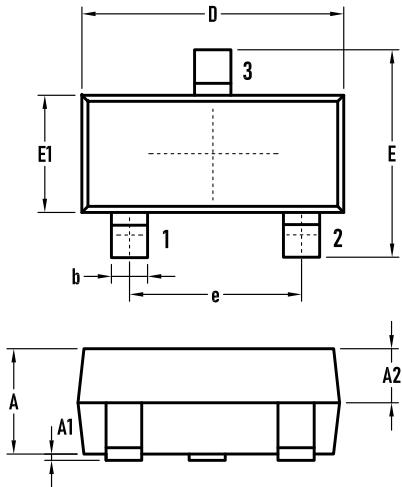
»**Electrical Characteristics** @ $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test conditions	Min	Max	Unit
V(BR)	Reverse breakdown voltage	IR=10μA	70		V
IR	Reverse current	VR=50V		100	nA
VF	Forward voltage	IF=1mA		410	mV
		IF=15mA		1000	mV
CD	Diode capacitance	VR=0V, f=1MHz		2	pF
trr	Reverse recovery time	IF=IR=10mA, Irr=1mA, RL=100Ω		5	nS

»**Typical Performance Characteristics** ($T_J = 25^\circ\text{C}$, unless otherwise noted)



»Package Information SOT-23



SYMBOL	MILLIMETER		
	MIN.	Typ	MAX
A	0.90	1.00	1.10
A1	0.02	0.06	0.10
A2	—	0.60	—
D	2.85	2.90	2.95
b	0.37	0.40	0.43
E	2.35	2.40	2.45
E1	1.25	1.30	1.35
e	1.85	1.90	1.95
L	0.35	0.40	0.48
θ	0	—	6°

»Ordering information

Order code	Package	Base qty	Delivery mode
BAS70/-04/-05/-06	SOT-23	3K	Tape and reel