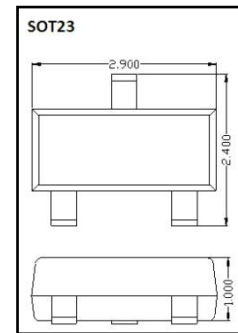


Schottky Barrier DIODE / DATA SHEET

BAS40—BAS40-06

- ◇ High Conductance
- ◇ Low Current Leakage
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

MCC Catalog Number	Device Marking	Type	Pin Configuration See page 2
BAS40	43	Single	Figure1
BAS40-04	44	Dual	Figure2
BAS40-05	45	Dual	Figure3
BAS40-06	46	Dual	Figure4

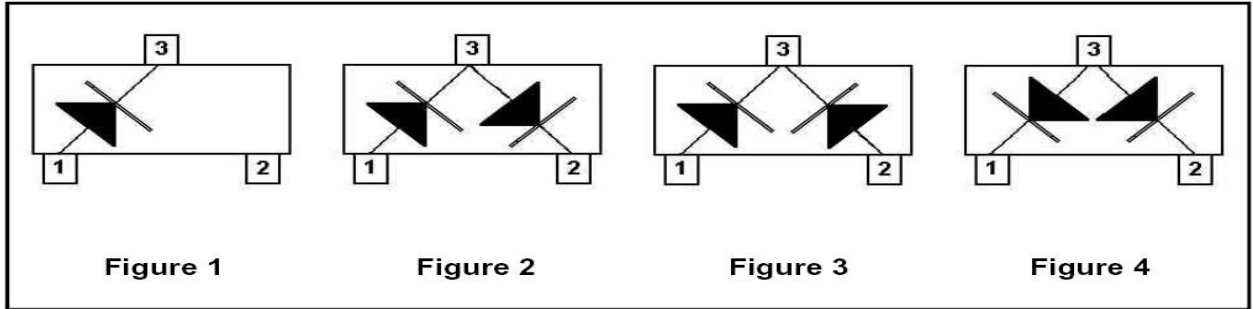


MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_R	Reverse Voltage	40	V
I_F	Forward Continuous Current	200	mA
P_{tot}	Power Dissipation	200	mW
T_J	Operating Junction Temperature Range	-55 to 125	°C
I_{FSM}	Peak Forward Surge Current (t=1S.NON-Repetitive)	0.6	A
T_{stg}	Storage Temperature Rance	-55 to 150	°C
T_J	Soldering temperature during	260	°C
R_j	Thermal Resistance Junction to Ambient	500	°C/W

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F=1mA$ $I_F=40mA$		0.38 1.0	V
V_R	Reverse breakdown voltage	$I_R=10uA$	40		V
I_R	Reverse voltage leakage current	$V_R=30V$		200	nA
C_J	Typical Junction Capacitance	$V_R=0V, f=1.0MHz$		5	pF
T_{rr}	Reverse recovery time	$I_F=I_R=10mA, I_{(REG)}=1mA$		5	nS

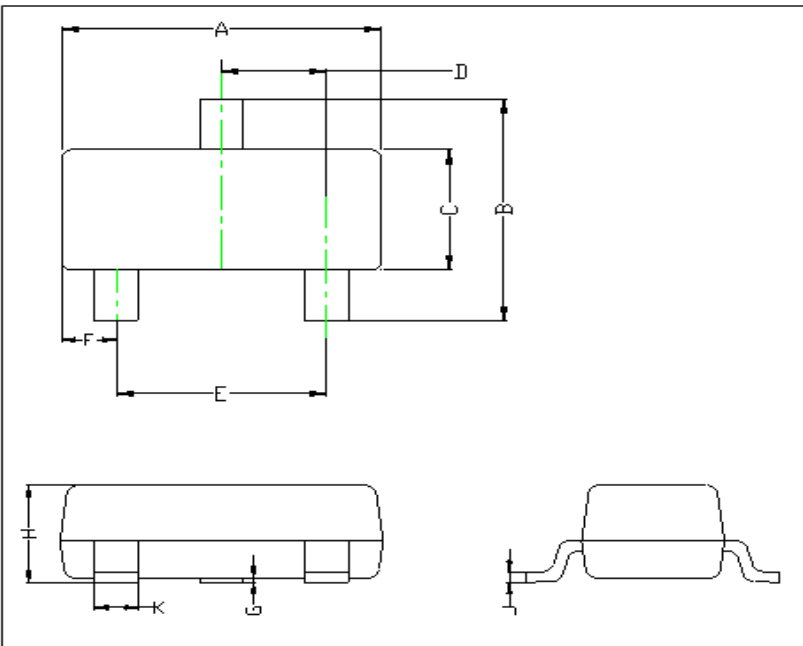


ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAS40---- BAS40-06	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS

Package Outline : SOT23



Symbol	Dimensions in mm	
	Min.	Max.
A	2.800	3.040
B	2.100	2.640
C	1.200	1.400
D	0.890	1.030
E	1.780	2.050
F	0.450	0.600
G	0.013	0.100
H	0.900	1.110
J	0.090	0.180
K	0.370	0.510

SOT23 Package Outline

Note:
 1. Halogen free ,EMC
 2. Pb free solder
 3: Lead thickness solder plating
 4. Lead frame CAC-5
 5. Other Tolerance ± 0.05
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions
 7. Unit : mm

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