















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAS40-S1, EVBAS40-XX-S1
Overseas Part Number	BAS40, BAS40-XX
▶ Equivalent Part Number	BAS40, BAS40-XX

"S1" means SOT-23



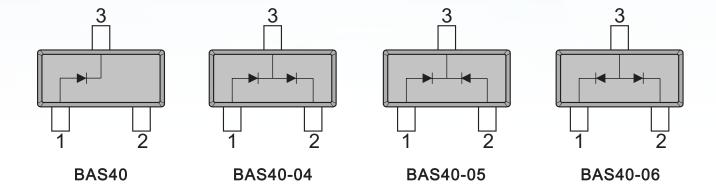


BAS40/-04/-05/-06 SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage
- Fast Switching





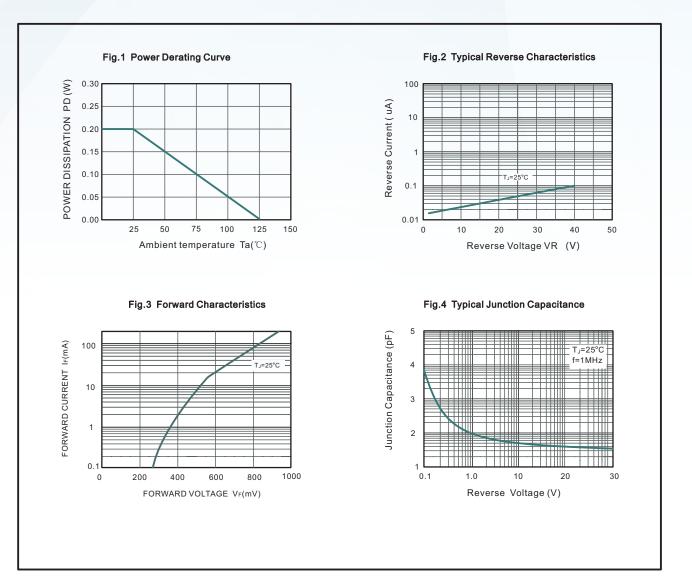
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Blocking Voltage	VR		
Working Peak Reverse Voltage	VRWM	40	V
Peak Repetitive Peak Reverse Voltage	Vrrm		
Forward continuous current	lғм	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	600	mA
Power Dissipation	PD	200	mW
Thermal Resistance From Junction To Ambient	RthJA	500	°C/W
Junction Temperature	Tj	125	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C

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

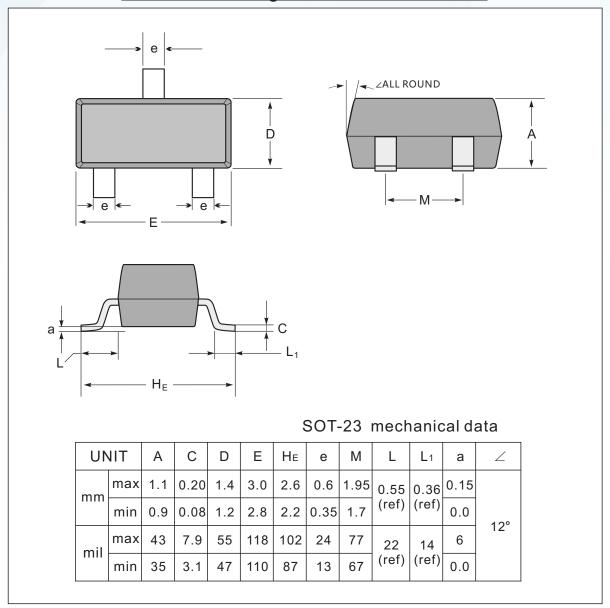
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	VBR	Ir=10µA	40		٧
Reverse voltage leakage current	IR	V _R =30V		0.2	uA
Forward voltage	VF	IF=1mA IF=40mA		0.38 1.0	>
Diode capacitance	Сп	V _R =0,f=1MHz		5	pF
Reverse recovery time	trr	Irr=1mA, IF= IR=10mA RL=100Ω		5	ns



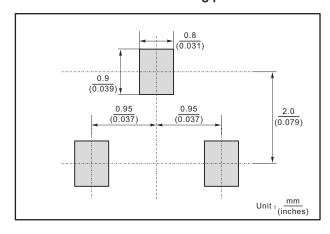




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAS40	43
BAS40-04	44
BAS40-05	45
BAS40-06	46



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