



RECTRON

SEMICONDUCTOR

TECHNICAL SPECIFICATION

BAS19

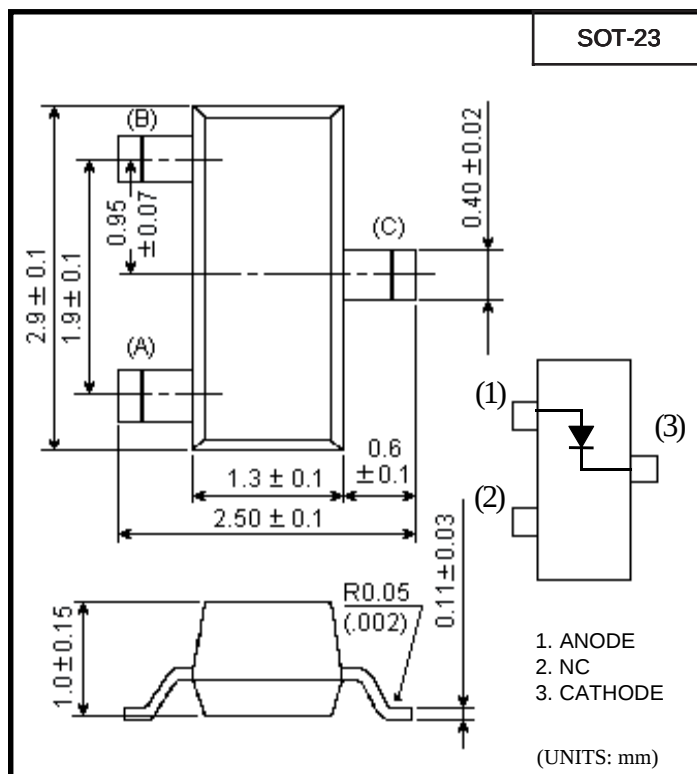
SURFACE MOUNT DIODE

Absolute Maximum Ratings (Ta=25°C)

Items	Symbol	Ratings	Unit
Reverse Voltage	VRRM	100	V
Reverse Recovery Time	trr	75	ns
Forward Voltage @ If = 100 mA	VF	1.0	V
Forward Current (1)	IF	200	mA
Junction Temp.	Tj	-55 to 150	°C
Storage Temp.	Tstg	-55 to 150	°C

Mechanical Data

Items	Materials
Package	SOT-23
Lead Frame	42 Alloy
Lead Finish	Solder Plating
Bond Wire	Au
Mold Resin	Epoxy
Chip	Silicon



Electrical Characteristics (Ta=25°C)

Ratings	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage; IR= 100uA (2)	VRRM	120	V
Repetitive Peak Forward Current	IFRM	625	mA
Forward Voltage IF= 100mA IF= 200mA	VF	1.0 1.25	V
Reverse Current VR= 100V VR= 100V (Tj= 150°C)	IR	0.10 100	uA
Reverse Recovery Time IF= IR= 10mA; RL= 100 Ω	trr	75	ns
Thermal Resistance (junction to ambient)	RθJA	500	°C/W

Notes:

1. Mounted on a ceramic substrate of 8mm x 10mm x 0.7mm.
2. Measured under pulse condition; pulse time (tp)= 0.3ms.

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