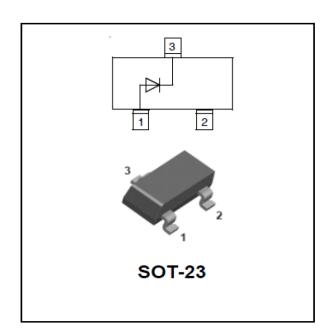




Schottky Barrier Rectifier



Features

- VR 40V
- IF 0.1A
- For Surface Mount Application and High Current Capability
- Low Forward Voltage Drop
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Mechanical Data

• Package: SOT-23

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking: A2

■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Peak Reverse Voltage	V_{RRM}	V	40
Reverse Voltage	V _R	V	40
Forward Continuous Current	I _F	mA	100
Non-Repetitive Peak Forward Surge Current @8.3ms, Half sine-wave	I _{FSM}	Α	1
Power Dissipation	P_{D}	mW	200
Thermal Resistance, Junction to Ambient	R _{thJA}	°C/W	500
Storage Temperature	T _{STG}	°C	-55 to +125
Operating Junction Temperature	Tj	°C	-55 to +125

■Ordering Information (Example)

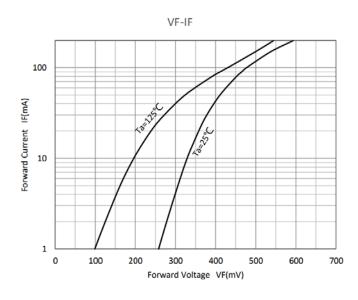
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB420DS	F2	Approximate 0.009	3000	30000	120000	7" reel

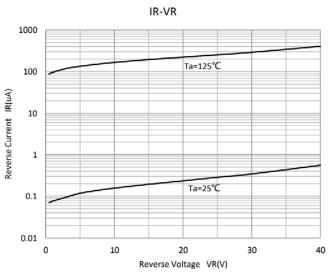


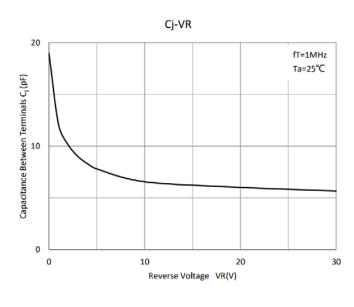
■Electrical Characteristics (Ta=25°C Unless otherwise specified)

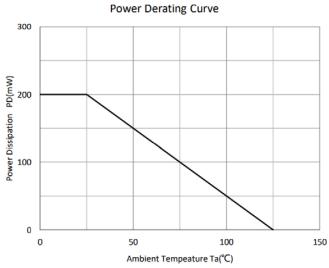
Item	Symbol	Unit	Conditions	MIN	ТҮР	MAX
Reverse Voltage	V _R	V	IR=100uA	40		
Forward Voltage	V _F	V	I _F =1mA		0.28	0.35
			I _F =10mA		0.36	0.45
			I _F =100mA			0.6
Reverse Current	I _R	uA	V _R =10V			1
			V _R =40V			5
Diode capacitance	Cj	pF	VR=0V,fT=1MHz			25

■ Typical Characteristics





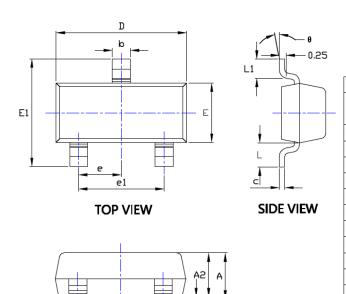








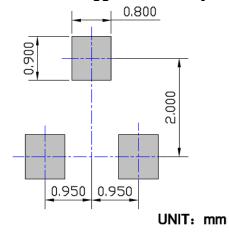
■SOT-23 Package Outline Dimensions



DIMENSIONS						
SYMBOL	INC	HES	Millimeter			
	MIN.	MAX.	MIN.	MAX.		
Α	0.035	0.045	0.900	1.150		
A1	0.000	0.004	0.000	0.100		
A2	0.035	0.041	0.900	1.050		
b	0.012	0.020	0.300	0.500		
С	0.004	0.008	0.100	0.200		
D	0.110	0.118	2.800	3.000		
E	0.047	0.055	1.200	1.400		
E1	0.089	0.100	2.250	2.550		
е	0.037	7TYP	0.950TYP			
e1	0.071	0.079	1.800	2.000		
L	0.022	REF	0.550REF			
L1	0.012	0.020	0.300	0.500		
θ	0°	8°	0°	8°		

■SOT-23 Suggested Pad Layout

SIDE VIEW





RB420DS

Disclaimer

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