





Schottky Barrier Diode



Features

Moisture sensitivity level 1

• Reverse voltage: 30V

Average forward current : 200mA

Application

High frequency and low voltage rectifier

Mechanical data

• Package: SOD-523

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

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

Parameter	Symbol	Unit	Value
Device marking code			В
Reverse voltage	V_{R}	V	30
Forward current	l _F	mA	200
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave		٨	1.0
Non-repetitive surge peak forward current @ t=1ms square wave	I _{FSM}	А	2.5
Power dissipation	P_{D}	mW	150
Junction temperature	TJ	°C	-40 to +150
Storage temperature	T_{STG}	°C	-40 to +150



RB520S-30H



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

Parameter	Symbol	Unit	Conditions	Min	Тур	Max
Breakdown voltage	V_{R}	٧	I _R =500uA	30		
Forward voltage	V _F	V	I _F =200mA			0.6
Reverse leakage current	I _R	uA	V _R =10V			1

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R ₀ J-A ⁽¹⁾	°C/W	833
Thermal resistance, junction-to-case	R ₀ J-C ⁽¹⁾	°C/W	667

Note:

(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 8mm*9mm copper pad areas

■Characteristics

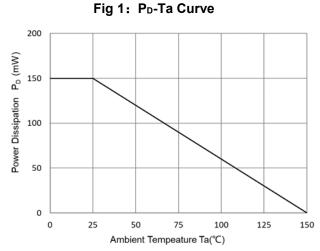


Fig 3: Typical Forward Characteristics

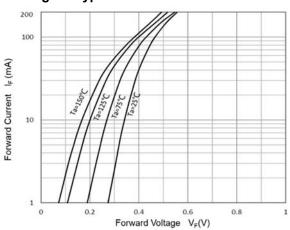


Fig 2: Capacitance Capability

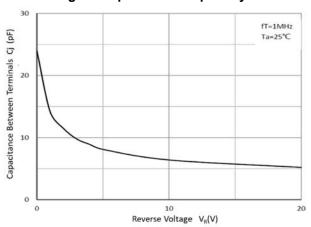
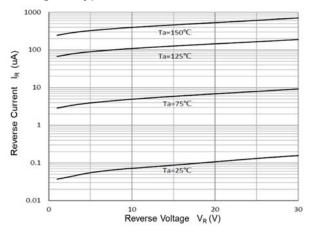


Fig 4: Typical Reverse Characteristics



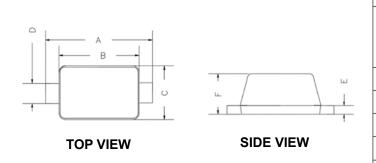




■Ordering Information

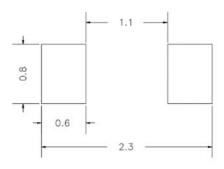
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
RB520S-30H	F2	Approximate 0.002	8000	80000	320000	7" reel
RB520S-30H	F3	Approximate 0.002	3000	30000	120000	7" reel

■ Outline Dimensions



DIMENSIONS					
MID	INC	HES	ММ		
	MIN	MAX	MN	MAX	
Α	0.059	0.067	1.500	1.700	
В	0.043	0.051	1.100	1.300	
С	0.028	0.035	0.700	0.900	
D	0.010	0.014	0.250	0.350	
Е	0.002	0.008	0.050	0.200	
F	0.020	0.028	0.500	0.700	

■ Suggested Pad Layout



UNIT: mm



RB520S-30H



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