



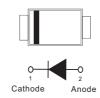
SURFACE MOUNT SCHOTTKY BARRIER DIODE

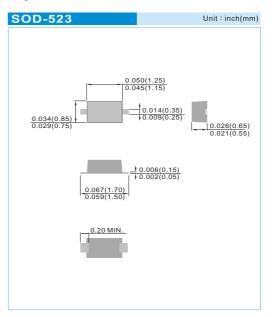
FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance
- · Ultra-Small Mount Package
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



- · Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight: 0.00005 ounces, 0.0014 grams





MAXIMUM RATINGS@Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	V
RMS Reverse Voltage	VR(RMS)	28	V
Forward Continuous Current (Note 1)	I FM	250	mA
Non-Repetitive Peak Forward Surge Current@t≤1s	I FSM	1	А

THERMAL CHARACTERISTICS@TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Po	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	Rөja	667	°C/W
Operating and Storage Temperature Range	TJ,TsTG	-55 to +125	°C

Notes: 1.Part mounted on FR-4 board with recommended pad layout

2. Short duration pulse test used so as to minimize self-heating effect



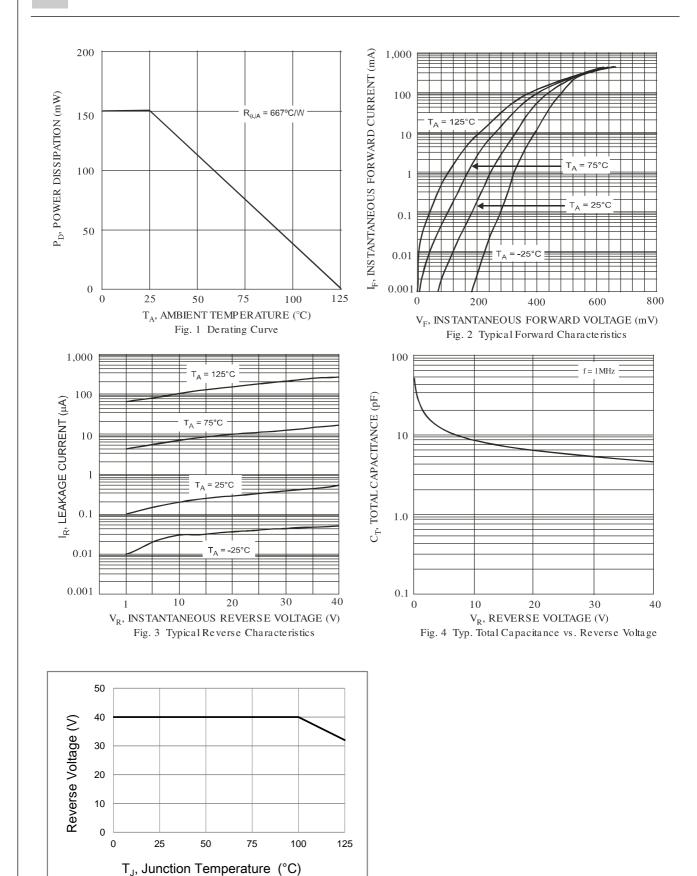


ELECTRICAL CHARACTERISTICS@TA=25°C unless otherwise specified

Characteristic	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage (Note 2)	I R=10μA	VBR(R)	40	-	-	V
Forward Voltage Drop	I F=20mA I F=200mA	VF	-	-	0.37 0.6	V
Peak Reverse Current (Note 2)	VR=30V VR=10V	I R	-	-	5 1	μА
Total Capacitance	VR=0V,f=1MHz	Ст	-	50	-	pF
Reverse Recovery Time	I F=I R=200mA, I RR=0.1 x I R, RL=100Ω	Trr	-	10	-	ns







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Fig.5 Operating Temperature Derating Curve

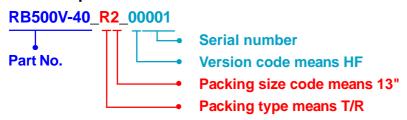




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
RB520S40_R1_00001	SOD-523	5K pcs / 7" reel	22	Halogen free
RB520S40_R2_00001	SOD-523	12K pcs / 13" reel	22	Halogen free

For example:

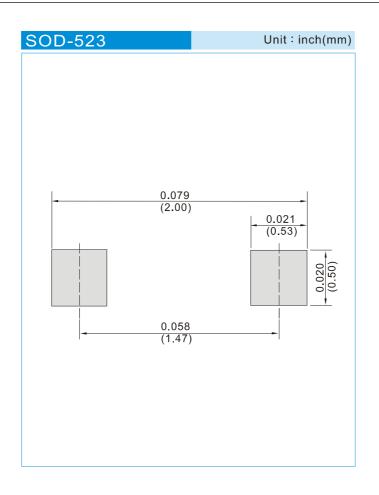


Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	Х			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





MOUNTING PAD LAYOUT







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