

RB520S40

SURFACE MOUNT SCHOTTKY BARRIER DIODE

FEATURES

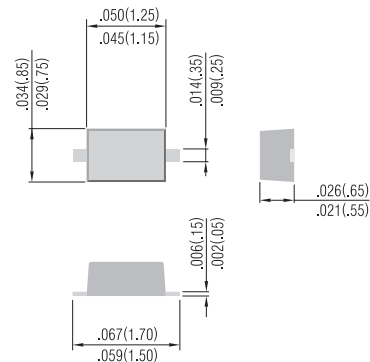
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance
- Ultra-Small Mount Package
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.008 gram
- Marking : 22

SOD-523

Unit: inch (mm)



MAXIMUM RATINGS@T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current (Note 1)	I _{FM}	250	mA
Non-Repetitive Peak Forward Surge Current@t≤1.0s	I _{FSM}	1.0	A

THERMAL CHARACTERISTICS@T_A=25°C unless otherwise specified

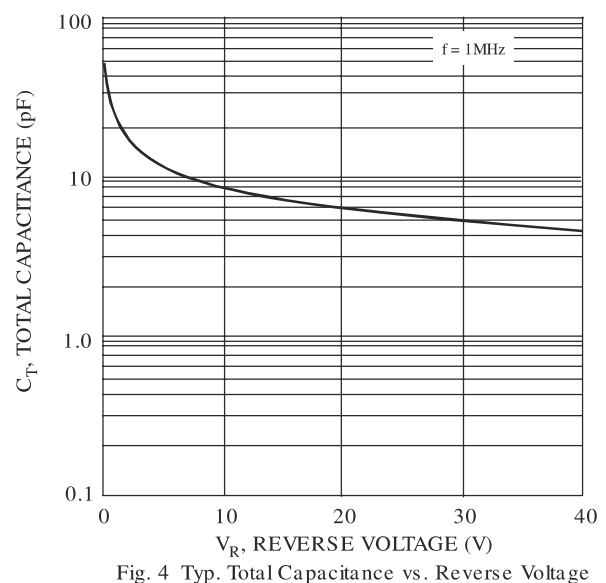
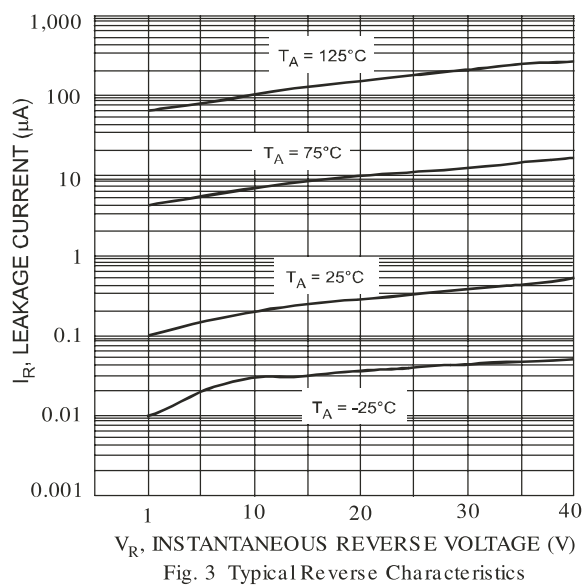
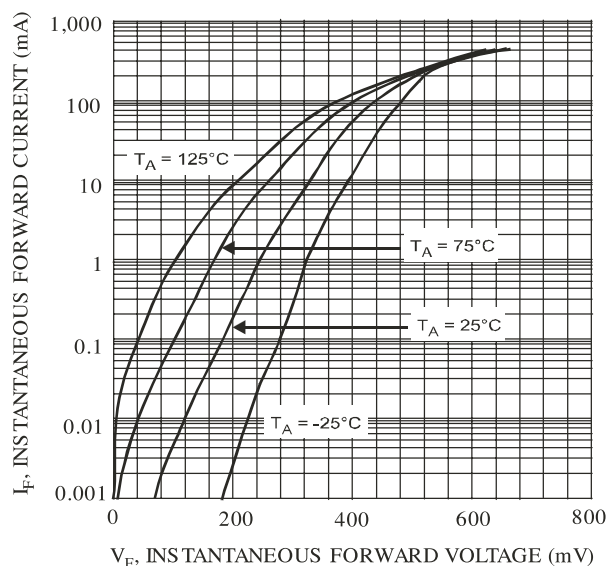
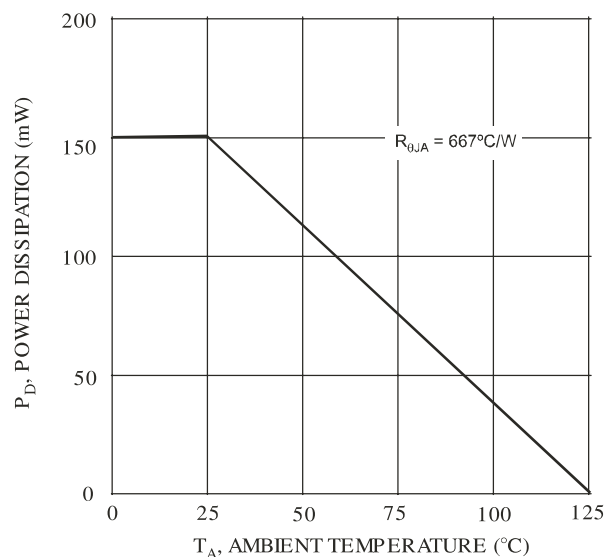
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P _D	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	667	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +125	°C

- 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

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ELECTRICAL CHARACTERISTICS@T_A=25°C unless otherwise specified

Characteristic	Test Conditions	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage (Note 2)	I _R =10μA	V _{BR(R)}	40	-	-	V
Forward Voltage Drop	I _F =20mA I _F =200mA	V _F	-	-	0.37 0.60	V
Peak Reverse Current (Note 2)	V _R =30V V _R =10V	I _R	-	-	5 1	μA
Total Capacitance	V _R =0V,f=1.0MHz	C _T	-	50	-	pF
Reverse Recovery Time	I _F =I _R =200mA, I _{RR} =0.1 X I _R ,R _L =100Ω	T _{RR}	-	10	-	ns

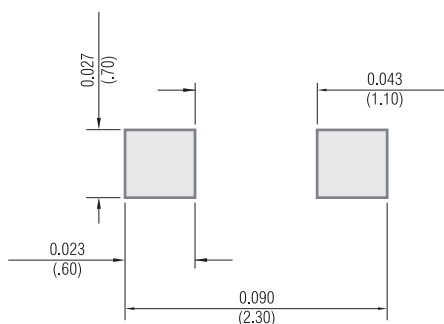


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MOUNTING PAD LAYOUT

SOD-523

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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