



SURFACE MOUNT SCHOTTKY DIODE

This device is an extremely fast Schottky diode housed in the ultra-small SOD-323 package. Ideal for applications where board space is at a

FEATURES

- Extremely low Vf
- Low capacitance for reduced insertion losses
- Reverse voltage rating of 30V
- Also available in lead-free plating (100% matte tin finish)

APPLICATIONS

- Mobile phones and accessories
- Hand-held computers
- High speed switching applications



MAXIMUM RATINGS $T_J = 25^{\circ}C$ Unless otherwise noted

Rating	Symbol	Value	Units
Peak Reverse Voltage	V_{RM}	30	V
Continuous Reverse Voltage	V_R	20	V
Average Rectified Forward Current	I _{F(AV)}	500	mA
Non-repetitive Peak Forward Current, 60Hz Half Sine-Wave	I _{FSM}	2	Α
Total Power Dissipation (Note 1)	P _{tot}	200	mW
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Note 1. FR-5 Board 1.0 x 0.75 x 0.062 in.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Units
Thermal Resistance, Junction to Ambient	R _{thja}	500	°C/W







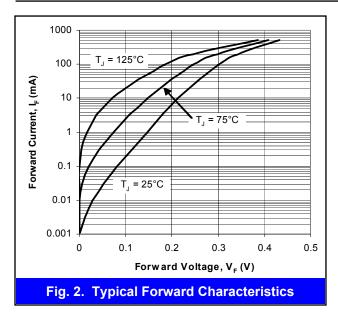
ELECTRICAL CHARACTERISTICS

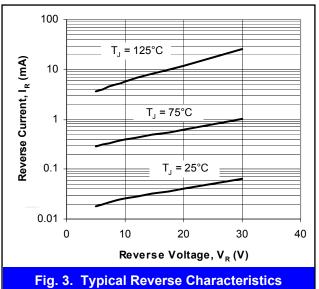
Tj = 25°C Unless otherwise noted

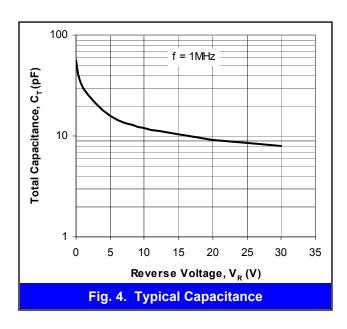
Parameter	Symbol	Conditions	Min	Тур	Max	Units
Forward Voltage (Note 2)	V _F	I _F = 200mA	-	-	0.36	V
		I _F = 500mA	-	-	0.47	
Reverse Leakage Current	I _R	V _R = 20V	-	-	100	uA
Total Capacitance	Ст	0Vdc Bias, f =1 MHz	1	57	68	pF

Note 2. Short duration pulse test to avoid self-heating effect

TYPICAL CHARACTERISTIC CURVES



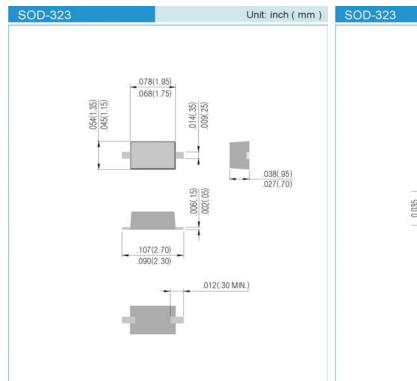


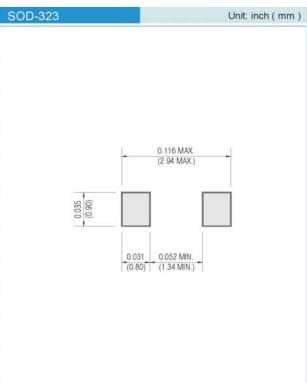






PACKAGE LAYOUT AND SUGGESTED PAD DIMENSIONS





ORDERING INFORMATION

RB551V30 T/R7 - 7" reel, 3K units per reel

RB551V30 T/R13 - 13" reel, 10K units per reel

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