



RB551V-30TA SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts **CURRENT** 0.2 Amperes

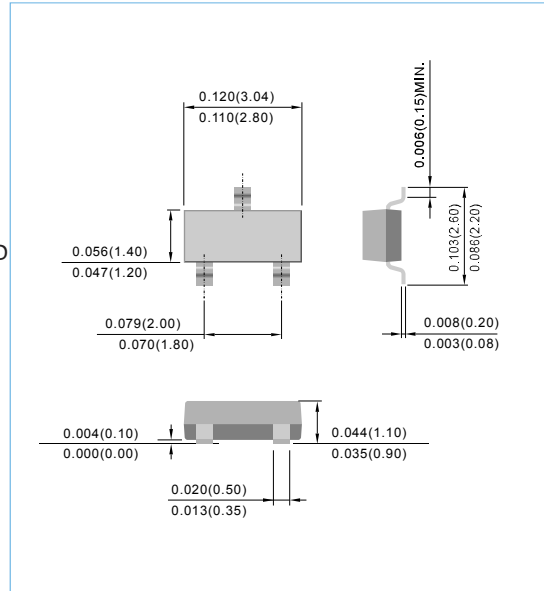
SOT-23 Unit: inch (mm)

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

MECHANICAL DATA

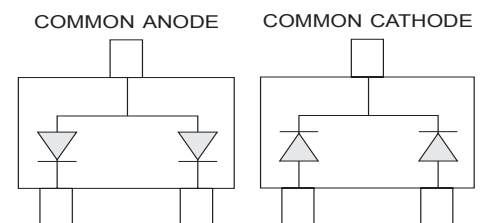
Case: SOT-23, Plastic
 Terminals: Solderable per MIL-STD-750, Method 2026
 Approx. Weight: 0.008 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	RB551V-30TA	RB551V-30TC	Units
Marking code		550	551	
Peak Repetitive Reverse Voltage	V_{RRM}	30		V
Maximum Average Forward Current at $T_A=75^\circ\text{C}$	I_O	0.2		A
Peak Forward Surge Current, 1.0s (JEDEC method)	I_{FSM}	0.6		A
Maximum Instantaneous Forward Voltage @ $I_F=100\text{mA}$ @ $I_F=500\text{mA}$	V_F	0.31 0.48		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R=10\text{V}$ @ $V_R=20\text{V}$	I_R	50 100		μA
Junction Capacitance : at $V_R=0\text{V}$	C_J	60		pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	833		$^\circ\text{C}/\text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125		$^\circ\text{C}$
Circuit Figure		Common Anode	Common Cathode	





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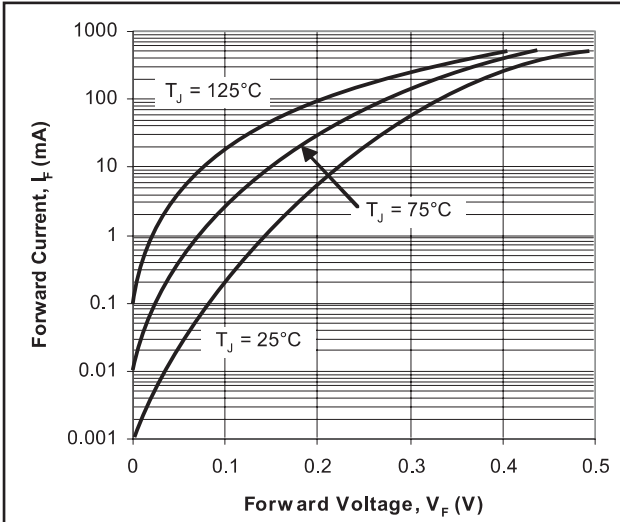


Fig. 1. Typical Forward Characteristics

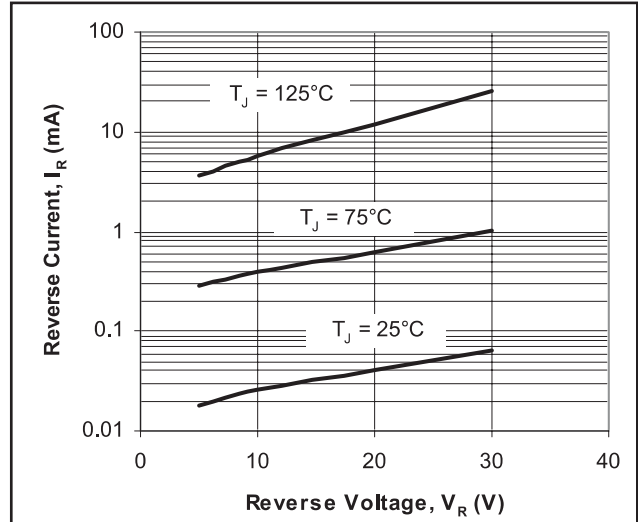


Fig. 2. Typical Reverse Characteristics

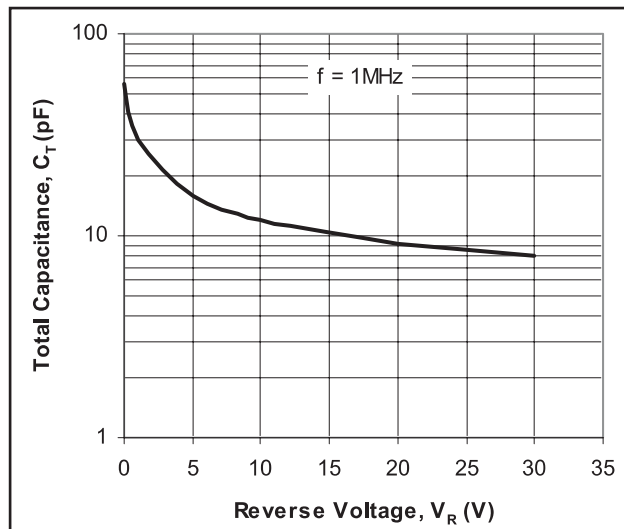
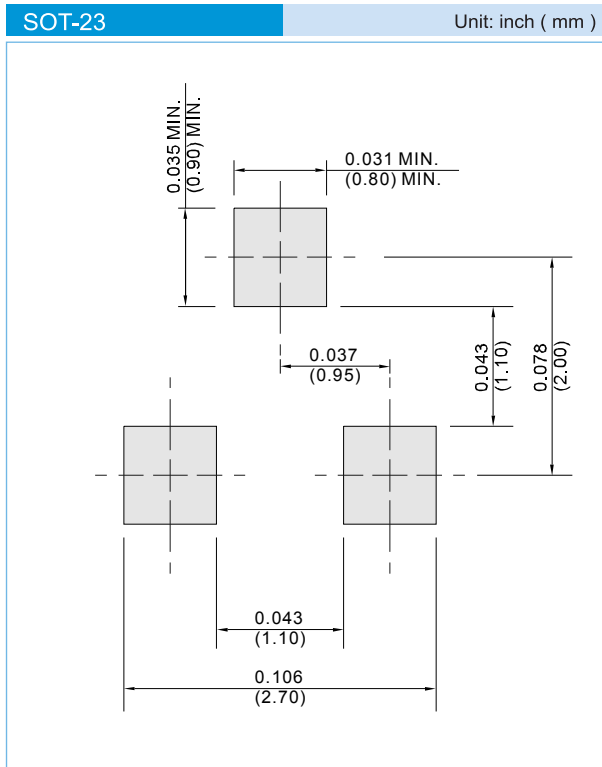


Fig. 3. Typical Capacitance



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

RB551V-30TA_R1_00001

RB551V-30TA_R2_00001

For example :

RB500V-40 **R2** **00001**



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)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
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			



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