



SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODES ARRAY

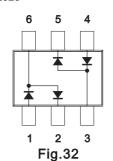
VOLTAGE 100 Volts POWER 200mWatts SOT-563

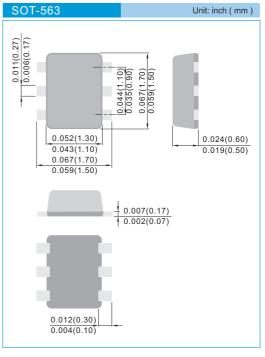
FEATURES

- Two isolated diode pairs for significant board space savings
- · Surface mount package ideally suited for automatic insertion
- Very low leakage current. 5nA typical at VR=75V.
- Low capacitance. 2pF max at VR=0V, f=1MHz
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-563 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx weight: 0.0026 grams
- · Marking: TF





ABSOLUTE RATINGS (each diode)

Parameter	Symbol	Value	Units
Maximum Reverse Voltage	VR	100	V
Peak Reverse Voltage	VRM	100	V
Continuous Forward Current	l F	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0us	I FSM	2.0	А

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units	
Power Dissipation (Note 1)	Ртот	200	mW	
Thermal Resistance, Junction to Ambient (Note 1)	RθJA	625	°C/W	
Junction Temperature	TJ	-55 to 150	°C	
Storage Temperature	Тѕтс	-55 to 150	°C	

NOTE:

1. FR-4 Board = $70 \times 60 \times 1$ mm.





ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V _(BR)	I R=100 uA			100	V
Reverse Current	IR	V _R =75 V V _R =75 V,T _J =150 °C			5 80	nA
Forward Voltage	VF				0.9 1.0 1.1 1.25	V
Total Capacitance	Ст	V _R =0 V, f=1MHz			2.0	pF
Reverse Recovery Time	Trr	I = I R=10mA, RL=100Ω			3.0	us

CHARACTERISTIC CURVES (each diode)

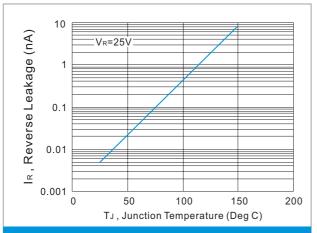


Figure 1. Reverse Leakage vs. Junction Temperature

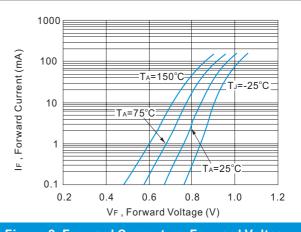


Figure 2. Forward Current vs. Forward Voltage

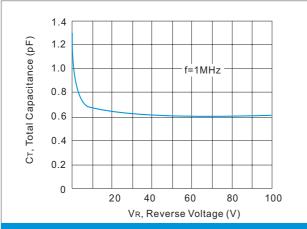
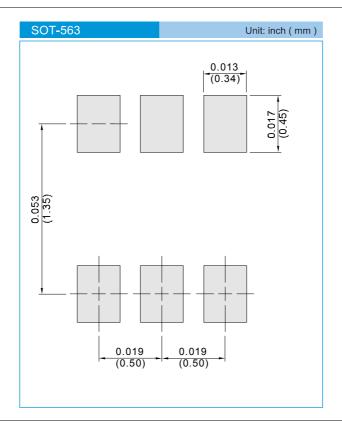


Figure 3. Total Capacitance vs. Reverse Voltage





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel

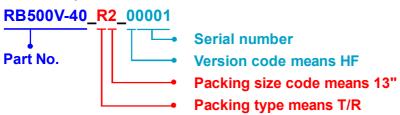




Part No_packing code_Version

ÓŒXFJJÙVÓÎ _R1_00001 BAV199STB6_R2_00001

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)	Α	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	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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