





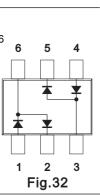
#### FEATURES

• 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 compliance with EU RoHS 2011/65/EU directive
- 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: 0.0001 ounces, 0.0026 grams.Marking: TF



0.011(0.27) 0.006(0.17)

0.052(1.30)

0.043(1.10) 0.067(1.70)

0.059(1.50)

0.012(0.30)
0.004(0.10)



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

#### THERMAL CHARACTERISTICS

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

#### NOTE:

1. FR-4 Board = 70 x 60 x 1mm.

Unit : inch(mm)

0.024(0.60)

0.019(0.50)

0 044(1 10) 0 035(0 90) 0 067(1 70) 0 059(1 50)

0.007(0.17)

0.002(0.07)

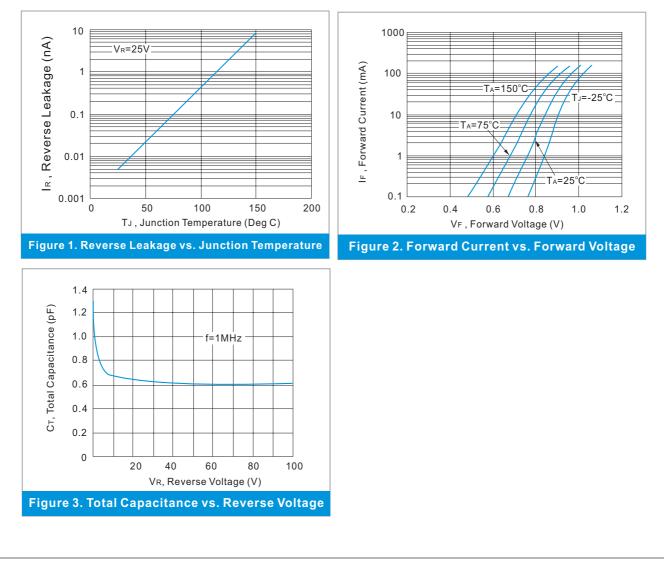


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### ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	I R=100 uA			100	V
Reverse Current	l r	V <sub>R</sub> =75 V V <sub>R</sub> =75 V,TJ=150 °C			5 80	nA
Forward Voltage	VF	F=1mA   F=10mA   F=50mA   F=150mA			0.9 1.0 1.1 1.25	V
Total Capacitance	Ст	VR=0 V, f=1MHz			2.0	pF
Reverse Recovery Time	Trr	I =I R=10mA, RL=100Ω			3.0	us

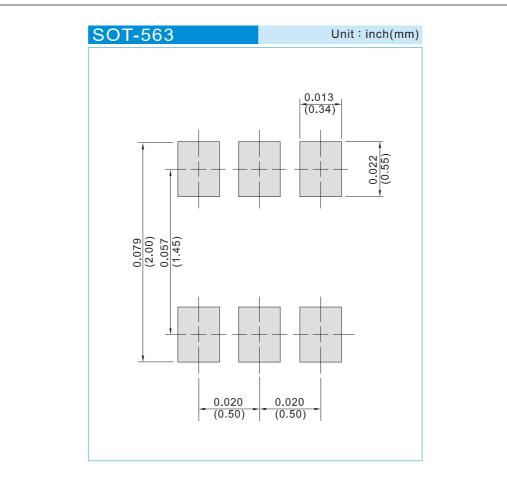
### CHARACTERISTIC CURVES (each diode)





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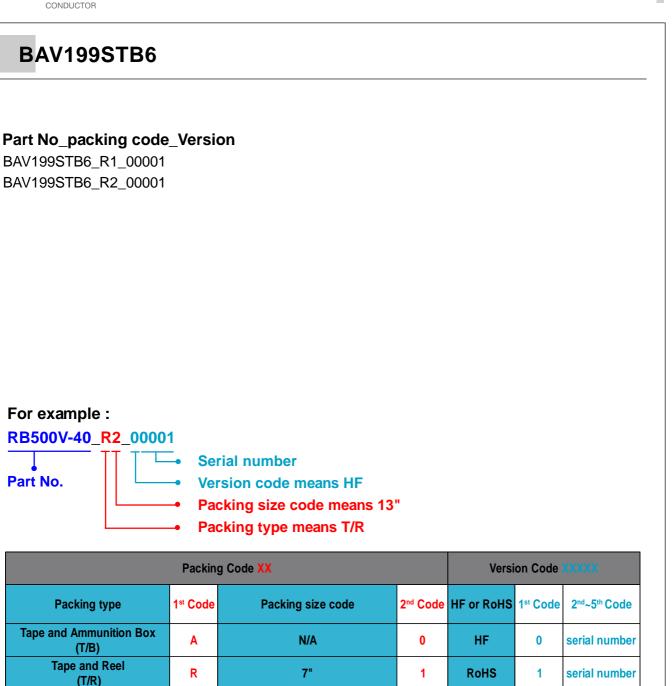
#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

- Packing information
  - T/R 10K per 13" plastic Reel
  - T/R 4K per 7" plastic Reel





13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Χ

Y

U

D

Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR)

Tape and Reel (Left Oriented)

(TRL)

FORMING

В

т

S

L

F



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