

SURFACE MOUNT SWITCHINGDIODE

VOLTAGE 100 Volt

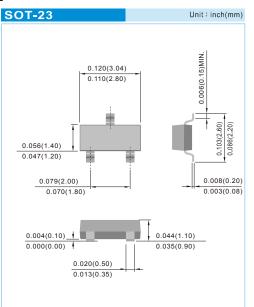
POWER 225 mWatt

FEATURES

Very fast reverse recovery (Trr < 2 ns typical)

· Isolated, series-connected diode pair

- · Surface mount package ideally suited for automatic insertion
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0003 ounces, 0.0084 grams

Marking: T3

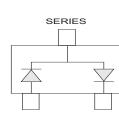
ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Reverse Voltage	VR	100	V
Peak Reverse Voltage	Vrrm	100	V
Continuous Forward Current	١F	0.2	А
Non-repetitive Peak Forward Surge Current at t=1µs	IFSM	4	А

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	Ртот	225	mW
Thermal Resistance, Junction to Ambient (Note 1)	Rθja	556	°C/W
Junction Temperature	ТJ	-55 to 150	°C
Storage Temperature	Tstg	-55 to 150	°C

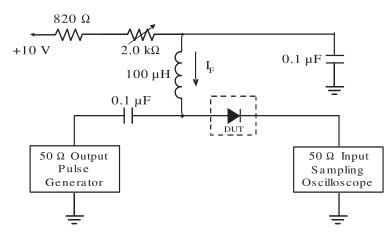
Note 1. FR-4 Boand = 70 x 60 x 1mm.





ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	Vbr	I	100			V
Reverse Current	IR	VR=50V VR=100V VR=50V,TJ=125°C			1 3 100	μA
Forward Voltage	VF	F=1mA F=10mA F=100mA			0.7 0.82 1.1	v
Total Capacitance	CJ	VR=0V, f=1MHz			2	pF
Reverse Recovery Time (See Figure 1)	Trr	I F=10mA,I R=10mA RL=100Ω			4	ns



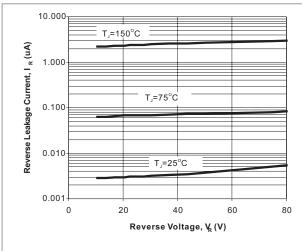
Notes: 1. A $2.0k\Omega$ variable resistor adjusted for a forward current (I_F) to 10mA

2. Input pulse is adjusted to $I_{R\left(peak\right) } is \mbox{ equal to } 10mA$

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT



ELECTRICAL CHARACTERISTICS CURVE





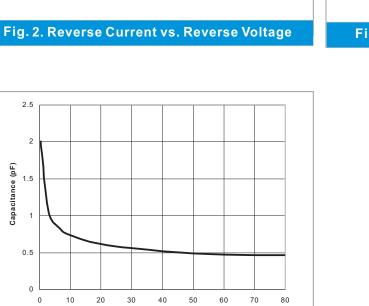


Fig. 4. Capacitance vs. Reverse Voltage

Reverse Voltage, V _R (V)

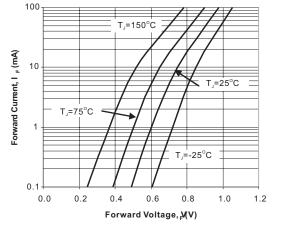


Fig. 3. Forward Current vs. Forward

2.5

2

1

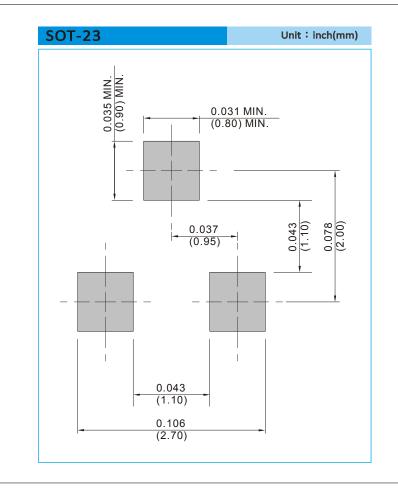
0.5

0

Capacitance (pF) 1.5



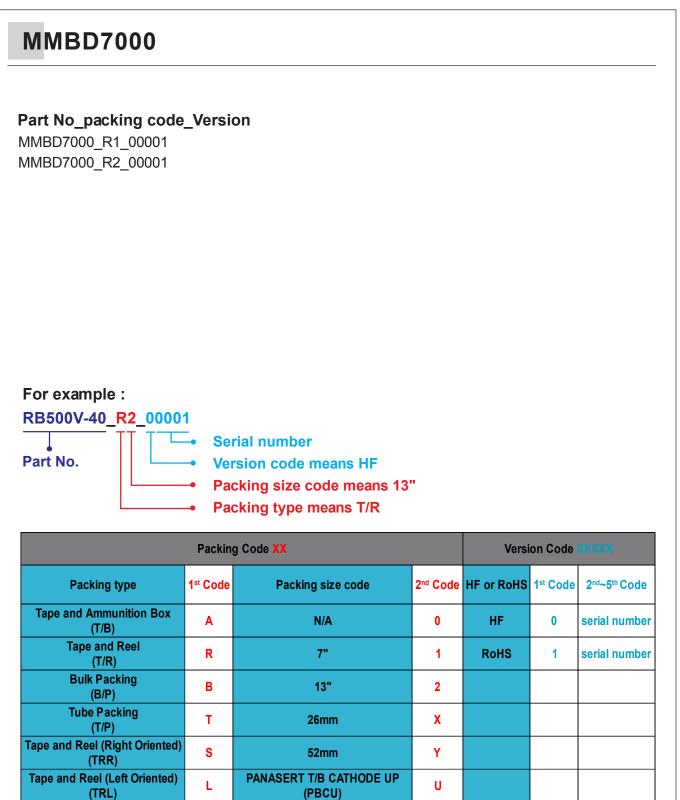
MOUNTING PAD LAYOUT



ORDER INFORMATION

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





PANASERT T/B CATHODE DOWN

(PBCD)

D

FORMING

F





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