

ABSOLUTE RATINGS

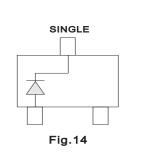
Parameter		Value	Units
Maximum Reverse Voltage	V _R	100	V
Peak Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _F	0.2	A
Non-repetitive Peak Forward Surge Current at t = 1µs	I _{FSM}	4	A

THERMAL CHARACTERISTICS

Parameter		Value	Units
Power Dissipation (Note 1)	P _{TOT}	225	mW
Thermal Resistance, Junction to Ambient (Note 1)	$R_{_{\Theta JA}}$	556	°C/W
Operating Junction And Storage Temperature Range	T_{J},T_{STG}	-55 to 150	°C

NOTE :

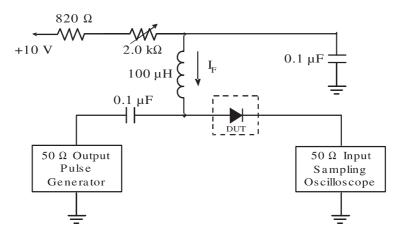
1. FR-5 Board = 1X0.75X0.062 in.





ELECTRICAL CHARACTERISTICS (T_=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _(BR)	I _R =100μA	100	-	-	V
Reverse Current	I _R	V _R =20V V _R =75V	-	-	0.025 5	μΑ
Forward Voltage	V _F	I _F =10mA	-	-	1	V
Total Capacitance	CJ	f=1.0MHz , V _R =0V	-	-	4	pF
Reverse Recovery Time (Figure 1)	T _{RR}	$I_F=I_R=10$ mA, RL=100 Ω	-	-	4	ns



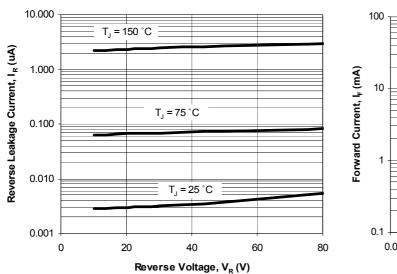
Notes: 1. A 2.0k Ω variable resistor adjusted for a forward current (I_F) to 10mA

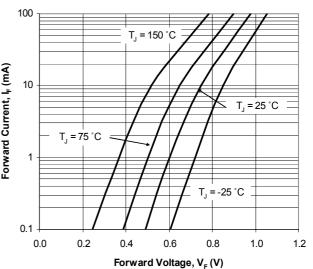
2. Input pulse is adjusted to $I_{R(peak)}$ is equal to 10mA

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT



ELECTRICAL CHARACTERISTICS CURVE





1 T 1

Fig. 2. Reverse Current vs. Reverse Voltage

Fig. 3. Forward Current vs. Forward Voltage

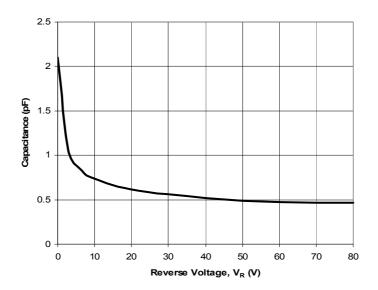
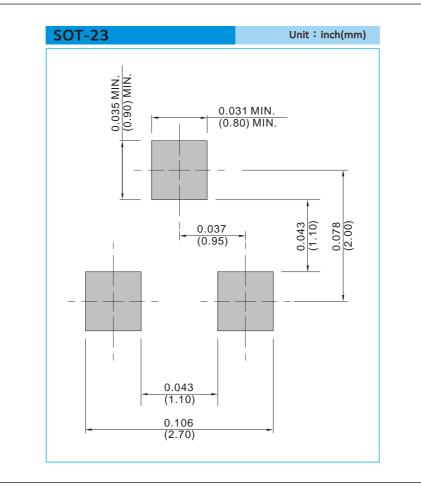


Fig. 4. Capacitance vs. Reverse Voltage



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





For example :

RB500V-40_R2_00001





Packing size code means 13"

•	Packing	type	means T/F	S
---	---------	------	-----------	---

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			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.