

ABSOLUTE RATINGS

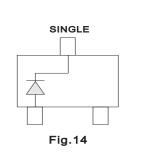
Parameter		Value	Units
Maximum Reverse Voltage	V _R	100	V
Peak Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _F	0.2	A
Non-repetitive Peak Forward Surge Current at t = 1µs	I _{FSM}	4	A

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 :

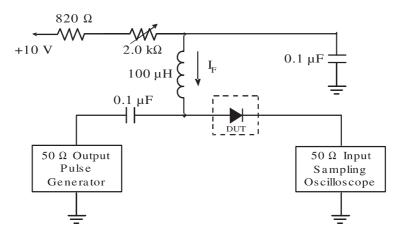
1. FR-5 Board = 1X0.75X0.062 in.





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



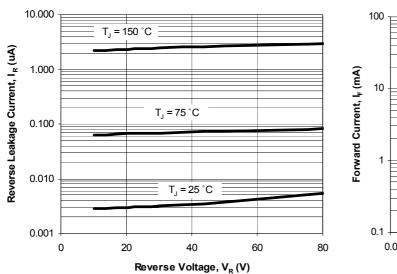
Notes: 1. A 2.0k Ω variable resistor adjusted for a forward current (I_F) to 10mA

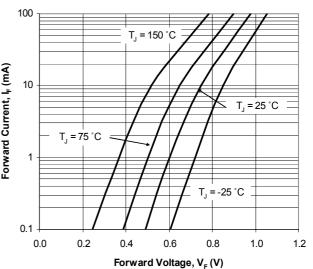
2. Input pulse is adjusted to $I_{R(peak)}$ is equal to 10mA

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

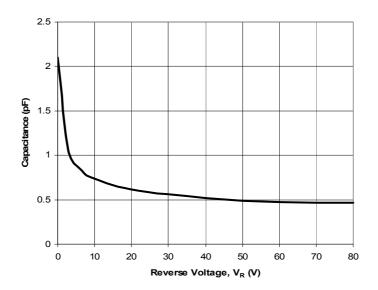
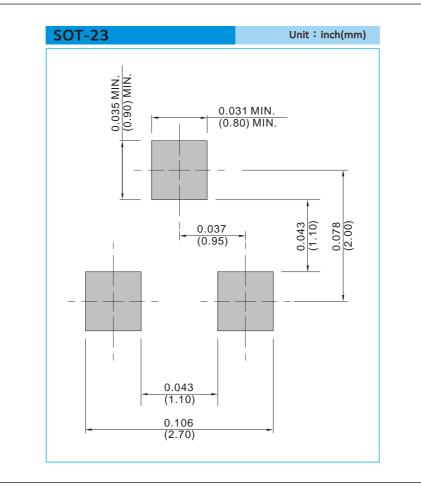


Fig. 4. Capacitance vs. Reverse Voltage



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
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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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