



PJRB461F

SURFACE MOUNT SCHOTTKY DIODE

VOLTAGE 25 Volts **CURRENT** 700 mA

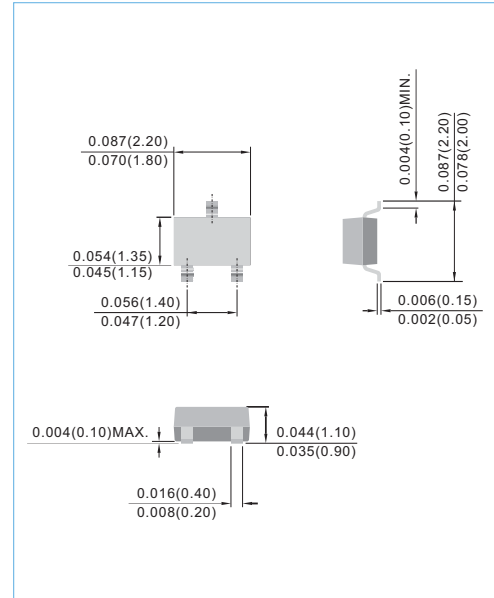
SOT-323 Unit : inch(mm)

FEATURES

- I_F guaranteed at 0.7A
- Ultra-Low V_F (0.28V typical @100mA,75°C)
- Extremely fast switching speed
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams
- Marking : B1



ABSOLUTE RATINGS

Note (1) :Single, 60 Hz half sine-wave

PARAMETER	Symbol	Value	Units
Maximum Reverse Voltage	V_R	20	V
Peak Reverse Voltage	V_{RRM}	25	V
Continuous Forward Current	I_F	0.7	A
Peak Forward Surge Current (1)	I_{FSM}	3	A

THERMAL CHARACTERISTICS

Note (1) : FR-4 Board =70 x 60 x 1mm.

PARAMETER	Symbol	Value	Units
Power Dissipation(1)	P_{TOT}	160	mW
Thermal Resistance,Junction to Ambient(1)	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{STG}	-55 to 150	°C

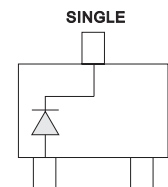


Fig.14



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ELECTRICAL CHARACTERISTICS ($T_J=25^{\circ}\text{C}$, unless otherwise noted)

Note (1) : Pulse Test : Pulse Width<300 μs , Duty Cycle<2%

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	10	-	-	V
Reverse Current	I_R	$V_R=20\text{V}$	-	-	200	μA
Forward Voltage(1)	V_F	$I_F=700\text{mA}$	-	0.45	0.49	V

CHARACTERISTIC CURVES

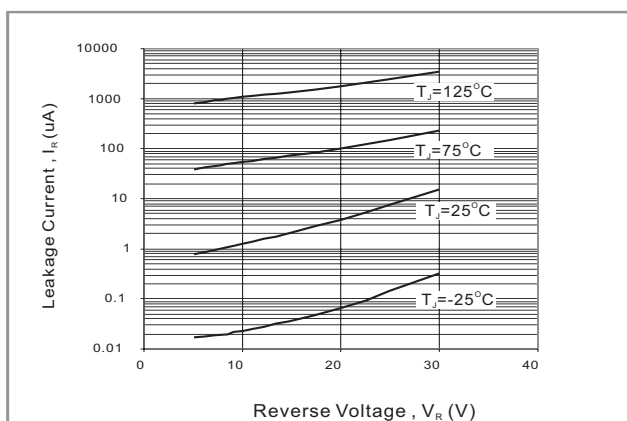


Fig.1- TYPICAL REVERSE LEAKAGE

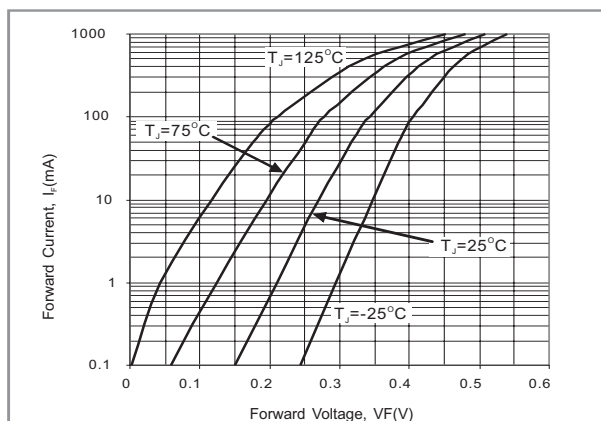


Fig.2- TYPICAL FORWARD VOLTAGE

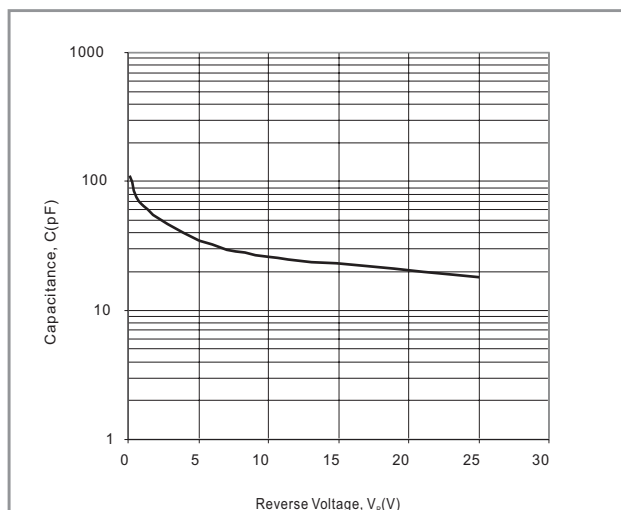
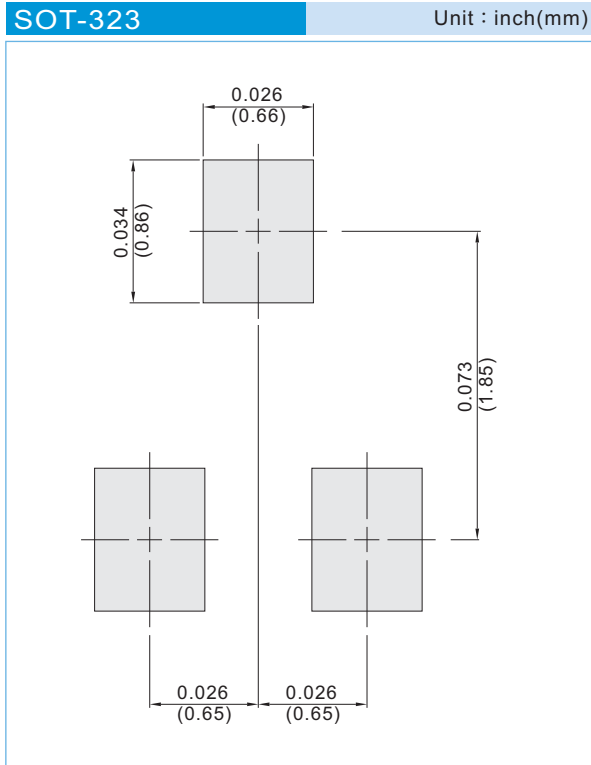


Fig.3- TYPICAL TOTAL CAPACITANCE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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Part No_packing code_Version

PJRB461F_R1_00001

PJRB461F_R2_00001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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