



BAT400D

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE 40 Volt **CURRENT** 500 mA

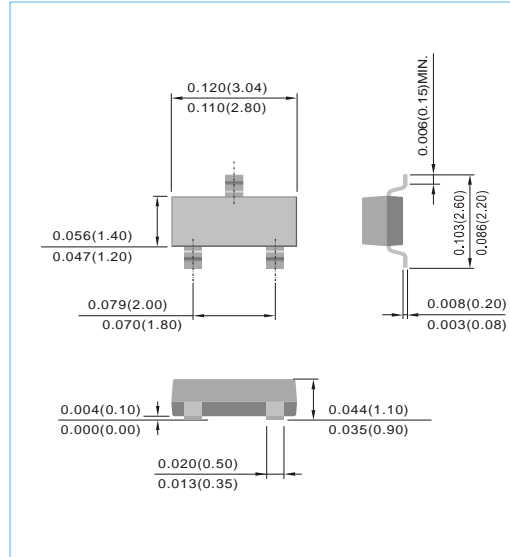
SOT-23 Unit : inch(mm)

FEATURES

- Low Forward voltage Drop
- High Conductance
- 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 Code: KSJ



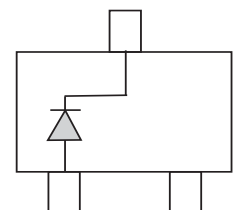
MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Current	$I_{F(AV)}$	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I_{FSM}	5.5	A
Power Dissipation (see figure 1)	P_D	480	mW
Typical Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	286	°C/W
Operation and Storage Temperature Range	T_J, T_{STG}	-40 to +125	°C

NOTE : 1.Short duration pulse test used to minimize self-heating effect.

SINGLE





BAT400D

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	$I_R=1mA$	40	-	-	V
Forward Voltage (Note 1)	V_F	$I_F=10mA$ $I_F=500mA$	-	285 480	300 500	mV
Reverse Current (Note 1)	I_R	$V_R=10V$ $V_R=30V$	-	1 2	30 50	μA
Junction Capacitance	C_J	$V_R=0V, f=1MHz$ $V_R=10V, f=1MHz$	-	170 20	-	pF

NOTE : 1.Short duration pulse test used to minimize self-heating effect.



BAT400D

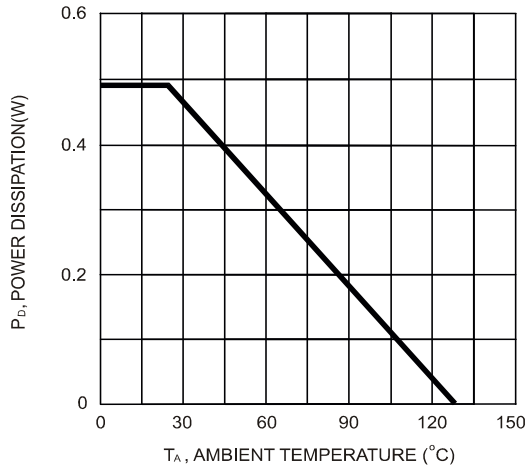


FIG.1 POWER DERATING CURVE

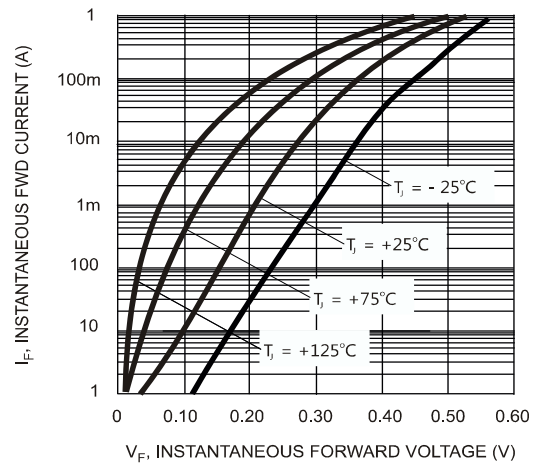


FIG.2 TYPICAL FWD CHARACTERISTICS

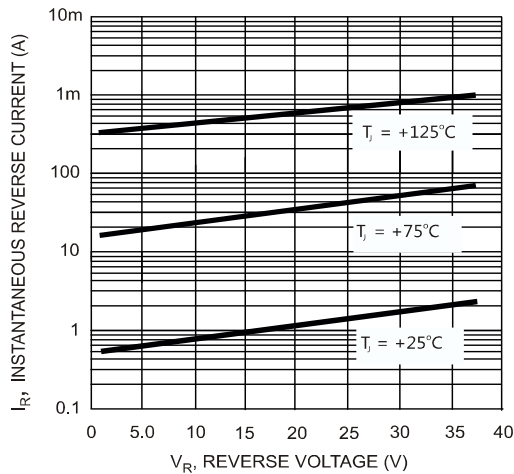


FIG.3 TYPICAL REVERSE CHARACTERISTICS

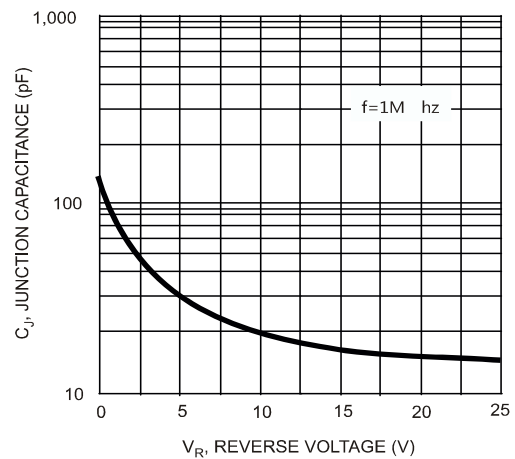


FIG.4 TYPICAL C_J VS. V_R

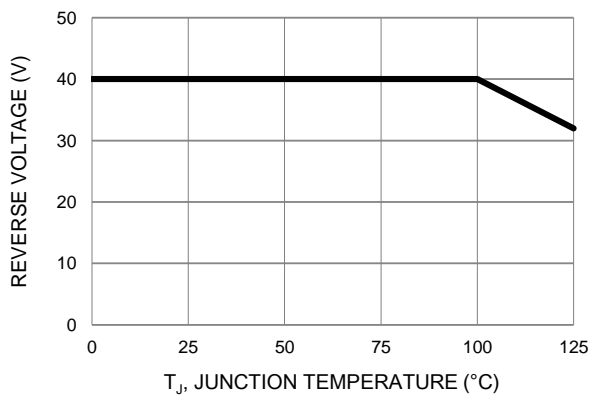


FIG.5 OPERATING TEMPERATURE DERATING CURVE

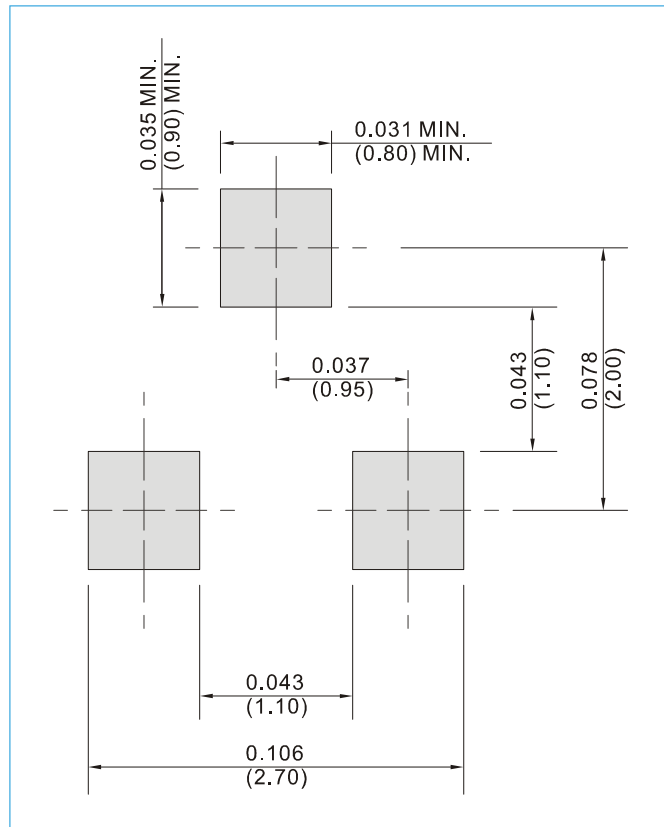


BAT400D

MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

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



BAT400D

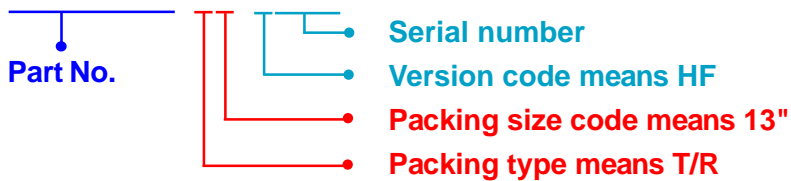
Part No_packing code_Version

BAT400D_R1_00001

BAT400D_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			



BAT400D

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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)