



BAT721C / BAT721S

SCHOTTKY BARRIER (DOUBLE) DIODES

VOLTAGE 40 Volts **CURRENT** 200 mA

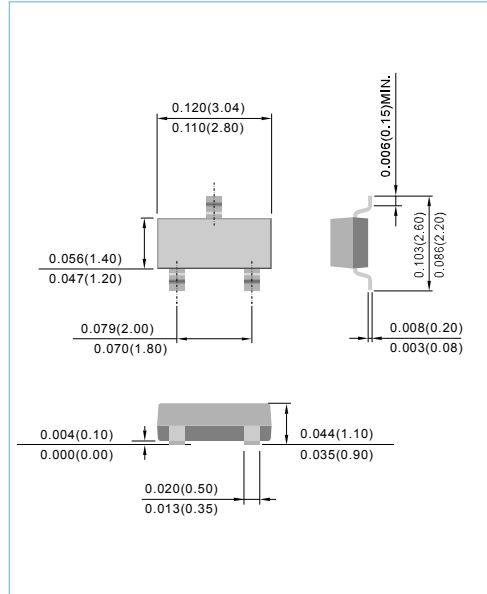
FEATURES

- Low forward voltage
- Guard ring protected
- Small plastic SMD package
- Ultra high-speed switching
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.0003 ounces, 0.0084 grams

SOT-23 Unit : inch(mm)



LIMITING VALUES

PARAMETER	CONDITIONS	SYMBOL	MIN.	MAX.	UNIT
Continuous reverse voltage		V_R	-	40	V
Continuous forward current		I_F	-	200	mA
Non repetitive peak forward current	tp=8.3ms half sinewave JEDEC method	I_{FSM}	-	1	A
Storage temperature range		T_{STG}	-65	+150	°C
Junction temperature		T_J	-	125	°C

1. In accordance with the Absolute Maximum Rating System (IEC 134).

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	BAT721C	BAT721S	UNIT
Marking Code	-	72C	72S	-
Thermal resistance from junction to ambient	R_{JA}	556		°C/W
Circuit Fight	-	Common Cathode	Series	-

2. Refer to SOT23 standard mounting conditions.
3. Mount on FR-5 1x0.75x0.062 in.

COMMON CATHODE

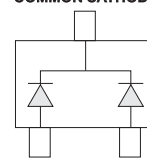


Fig.16

SERIES

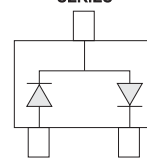


Fig.17

PAN JIT RESERVES THE RIGHT TO CHANGE THE SPECIFICATION ANY TIME WITHOUT NOTICE IN ORDER TO IMPROVE THE DESIGN AND SUPPLY THE BEST POSSIBLE PRODUCT.



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified.

PARAMETER	SYMBOL	CONDITIONS	MIN.	MAX.	UNIT
Continuous forward voltage	V _F	I _F =10mA I _F =100mA I _F =200mA	-	300 420 550	mV
Continuous reverse current	I _R	V _R =30V	-	15	μA
		V _R =30V, T _J =100°C	-	3	mA
Diode capacitance	C _d	f=1MHz, V _R =0	40	50	pF

4. Pulse test : tp<300μs, δ < 0.02.

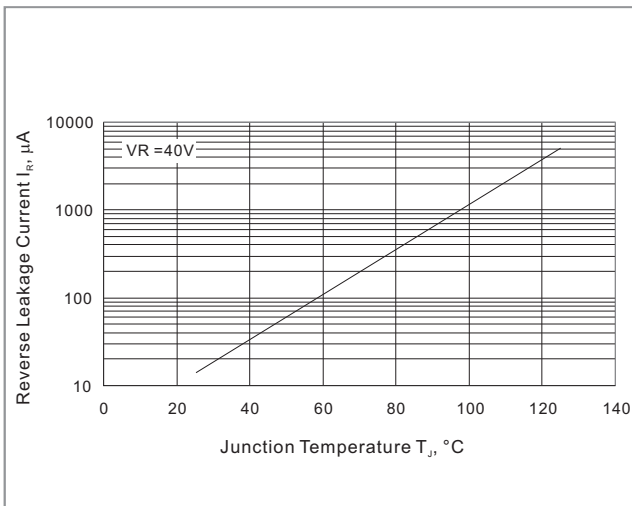


FIG. 1-Reverse Leakage Current vs. Junction Temperature

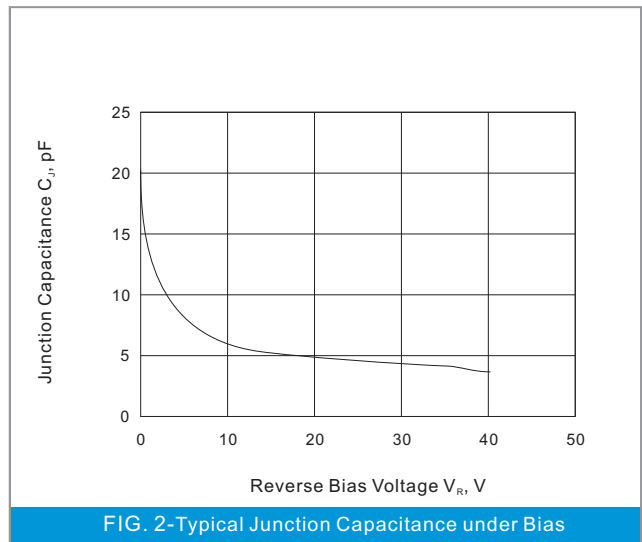


FIG. 2-Typical Junction Capacitance under Bias

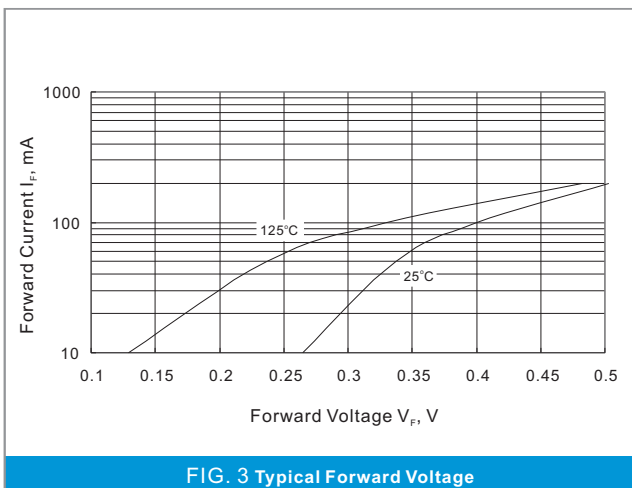
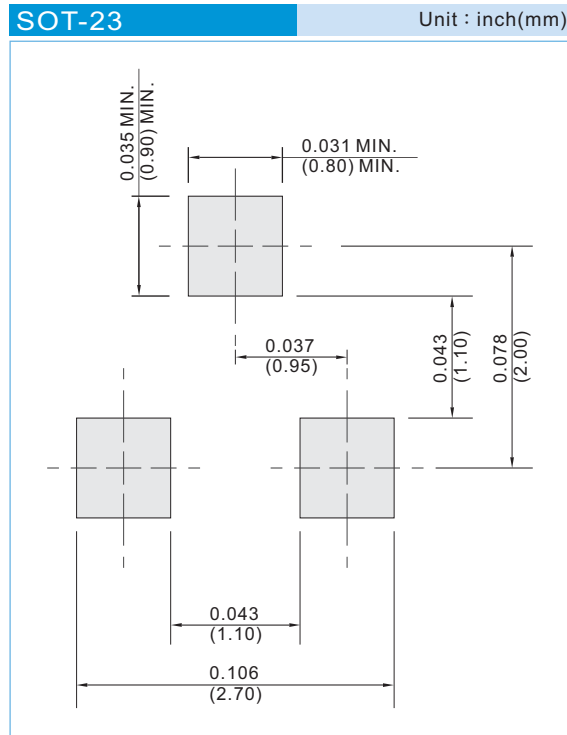


FIG. 3 Typical Forward Voltage



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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