

BAT721C / BAT721S

SCHOTTKY BARRIER (DOUBLE) DIODES

VOLTAGE 40 Volts **CURRENT** 200 mA

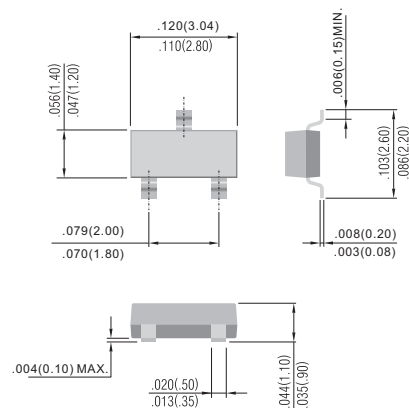
FEATURES

- Low forward voltage
- Guard ring protected
- Small plastic SMD package
- Ultra high-speed switching
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

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

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	$t_p=8.3\text{ms}$ 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	$R_{\theta JA}$	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

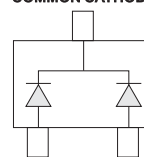


Fig.16

SERIES

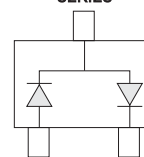


Fig.17

PAN JI T 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	
Diode capacitance	C _d	f=1MHz, V _R =0	40	50	pF

4. Pulse test : tp<300μs, δ < 0.02.

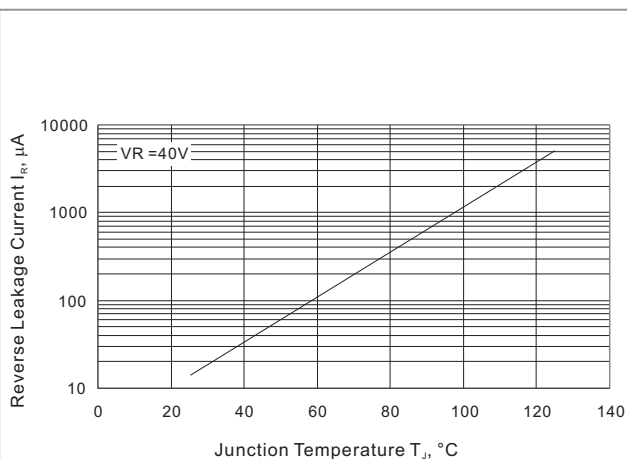


FIG. 1-Reverse Leakage Current vs. Junction Temperature

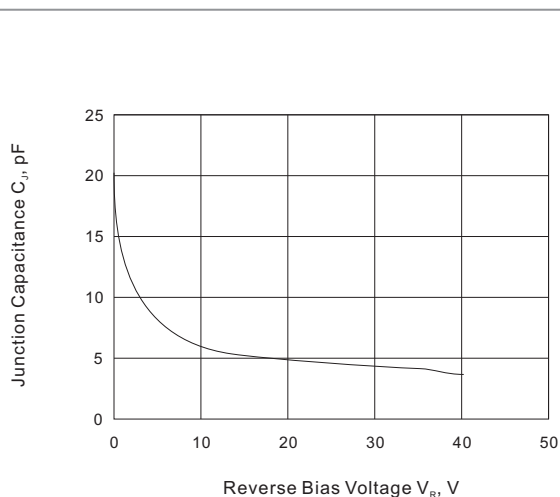


FIG. 2-Typical Junction Capacitance under Bias

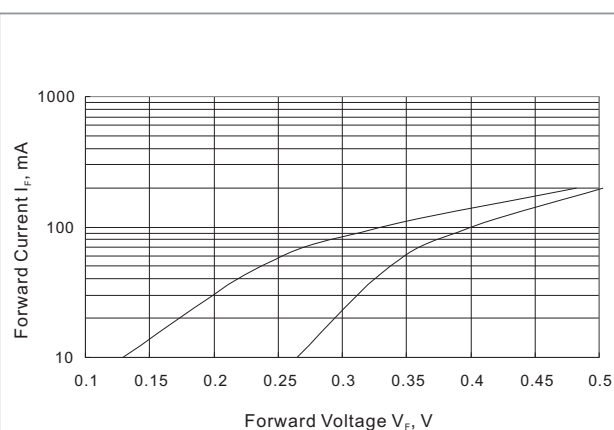


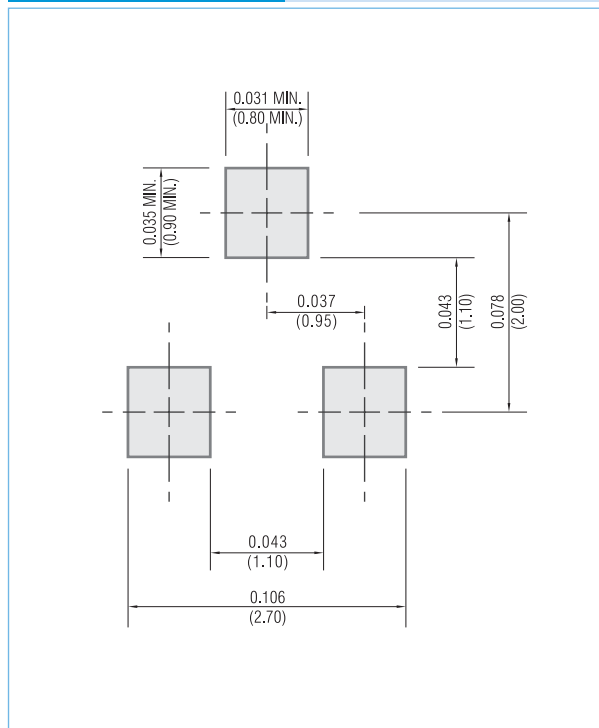
FIG. 3 Typical Forward Voltage

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MOUNTING PAD LAYOUT

SOT-23

Unit: inch (mm)



ORDER INFORMATION

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

LEGAL STATEMENT

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