

SCHOTTKY BARRIER (DOUBLE) DIODES

VOLTAGE 40 Volt CURRENT

/olt CURRENT 200 mA

FEATURES

- Ultra high switching speed
- · Low forward voltage
- · Guard ring protected
- Small plastic SMD package
- Ultra high-speed switching
- Voltage clamping
- Protection circuits
- 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
- Weight: 0.0003 ounces, 0.0084 grams
- Marking: 72C



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	I _{FSM}	-	1	A
Storage temperature range		T _{stg}	-65	+150	°C
Junction temperature		Tj	-	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 _{eja}	55	°C/W	
Circuit fight	-	Common Cathode Series		-

2. Refer to SOT-23 standard mounting conditions.

3. Mount on FR-5 1x0.75x0.062 in.







ELECTRICAL CHARACTERISTICS

Tj=25C 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	рF

4. Pulse test : tp<300 μ s, δ < 0.02.





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAT721C_R1_00001 BAT721C_R2_00001

For example :

RB500V-40_R2_00001



• Serial number

Version code means HF

Packing size code means 13"

- Packing type means T/R

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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