

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum Rms Voltage	V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	0.4	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load Per Diode	I _{FSM}	1	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	7	pF
Typical Thermal Resistance Per Diode	$R_{\theta JA}^{(1)}$	350	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~150	°C



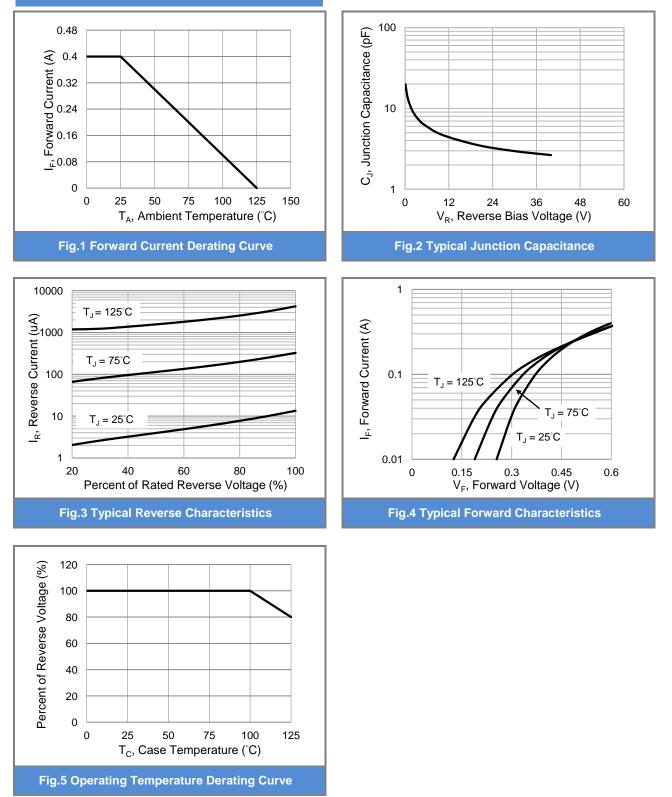


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

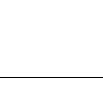
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 0.2 A, T _J = 25 °C	-	0.45	-	V
		$I_F = 0.4 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.65	
		I _F = 0.2 A, T _J = 125 °C	-	0.43	-	
		I _F = 0.4 A, T _J = 125 °C	-	0.62	-	
Reverse Current	$I_{R}^{(2)}$	$V_R = 32 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	8	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	uA
		$V_R = 40 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	2.5	-	mA

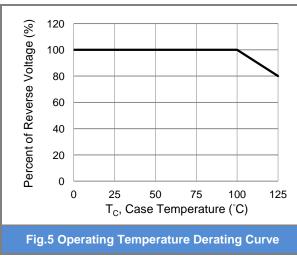
NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Short duration pulse test used to minimize self-heating effect.



TYPICAL CHARACTERISTIC CURVES



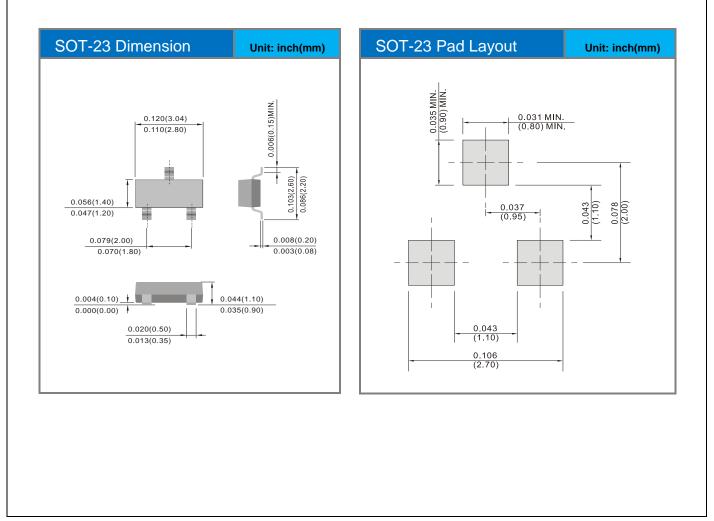




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT721AC_R1_00001	SOT-23	3K pcs / 7" reel	TAC	Halogen free

Packaging Information & Mounting Pad Layout





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