



Micro Commercial Components



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BAT720

350mW
Schottky Diodes
40 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Very Low Forward Voltage Drop.
- Guard Ring Protected
- Untral Small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- Marking: L61
- Weight: 0.008 grams (approx.)

Maximum Ratings

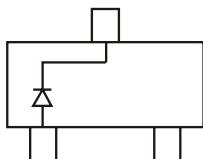
Symbol	Rating	Rating	Unit
V_R	Continuous Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_O	Average Rectified Current ⁽¹⁾	0.50	A
I_{FSM}	Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	2.0	A
P_D	Power Dissipation ⁽¹⁾	350	mW
R_{JA}	Thermal Resistance Junction to Ambient Air ⁽¹⁾	286	°C/W
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

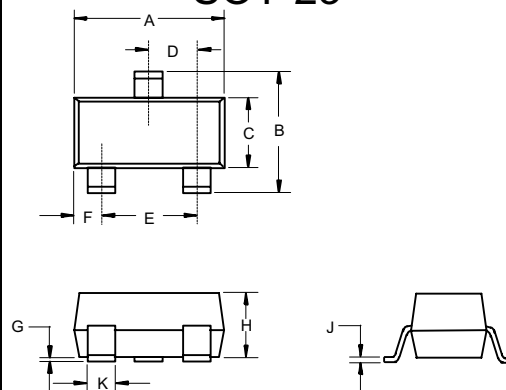
Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage ($I_F=500mA$) ^(Note 1)	---	---	0.55	V
I_R	Reverse Current ($V_R=35Vdc$) ^(Note 2)	---	---	100	uA
C_T	Capacitance ($V_R=0$, $f=1.0MHz$)	60	----	90	pF

Notes:1.Part mounted on FR-4 PC board with recommended pad layout
2.Short duration test pulse used to minimize self-heating effect.

Internal Structure Schematic Diagram

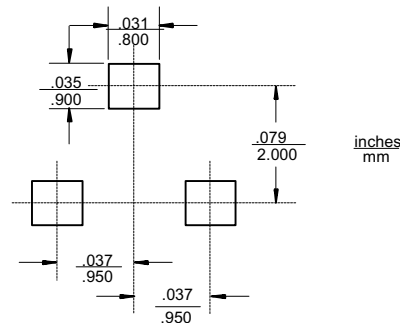


SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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