



Micro Commercial Corp.
21201 Itasca St.
Chatsworth, CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MC420

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

Mechanical Data

- Case :SOT-346,Molded Plastic
- Terminals :Solderable per MIL-STD-202,Method 208
- Polarity :See Diagrams Below
- Weight :0.008 grams (approx)
- Mounting Position :Any

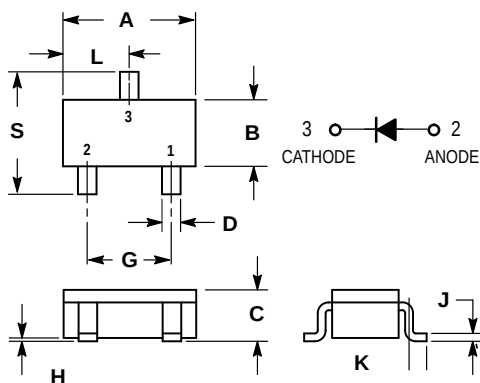
Maximum Ratings

- Operating Temperature: -25°C to +125°C
- Storage Temperature: -40°C to +125°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MC420	D3B	40V	28V	40V

0.1 Amp Surface Mount Schottky Barrier Diode 40 Volts

SOT-346

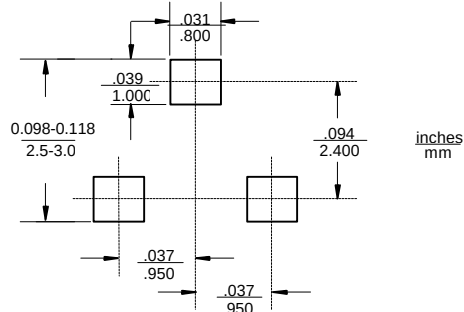


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.106	.122	2.70	3.10	
B	.051	.067	1.30	1.70	
C	.039	.051	1.00	1.30	
D	.014	.020	0.35	0.50	
G	.067	.091	1.70	2.30	
H	.000	.004	0.00	0.10	
J	.004	.010	0.10	0.26	
K	.008	.024	0.20	0.60	
L	.049	.065	1.25	1.65	
S	.089	.118	2.25	3.00	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.1A	$T_A = 25^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	1.0A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MC420	V_F	0.45V	$I_{FM} = 10\text{mA}$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1 μA	$T_A = 25^\circ\text{C}$ $V_R = 10\text{V}$

Suggested Solder Pad Layout



MC420

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

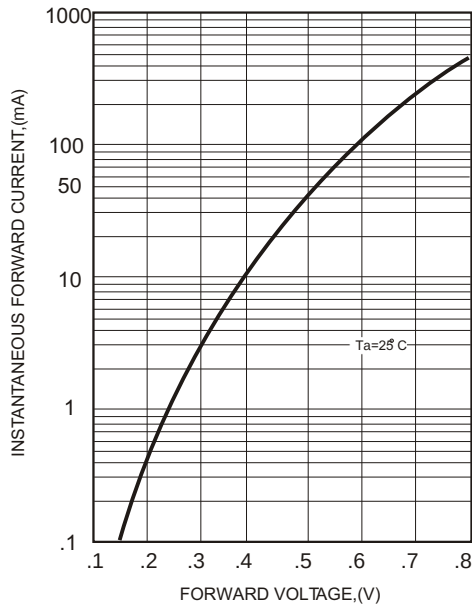


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

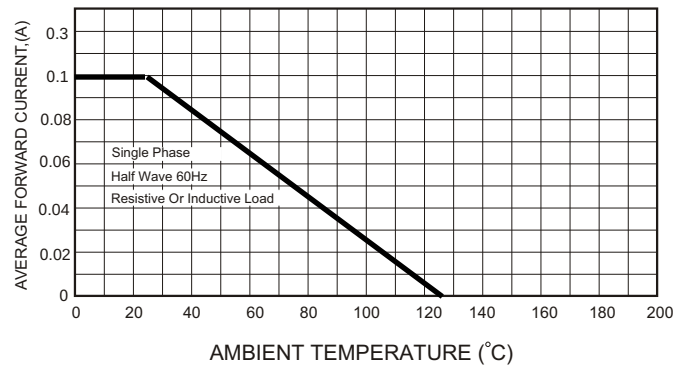


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

