Micro Commercial Corp.
21201 Itasca St.
Chatsworth, CA 91311
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MC400 THRU MC411

0.5 Amp Surface Mount Schottky Barrier Diode 20 to 40 Volts

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)
- Mountion Position :Any

Maximum Ratings

- Operating Temperature: -25°C to +125°C
- Storage Temperature: -50°C to +125°C

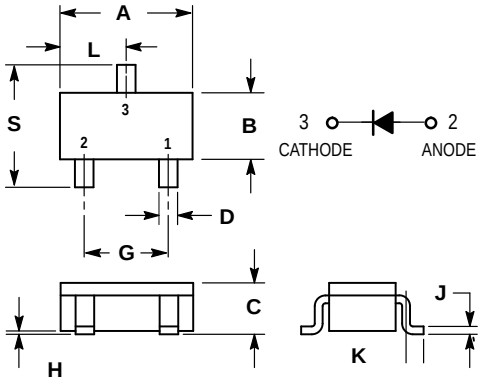
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MC411	05T	20V	14V	20V
MC400	05F	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A	T_A = 90°C
Peak Forward Surge Current	I_{FSM}	3A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MC411 MC400	V_F	0.45V 0.53V	I_{FM} = 0.5A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	100μA 4.0mA	T_J = 25°C T_J = 100°C

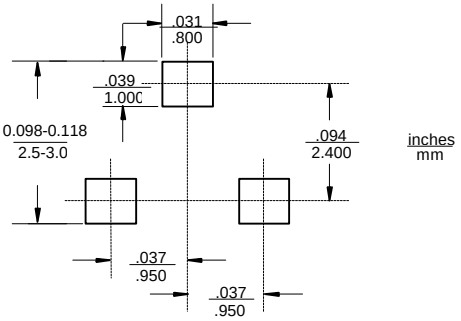
*Pulse Test: Pulse Width 300μsec, Duty Cycle 1%

SOT-346



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	

Suggested Solder Pad Layout



MC400 thru MC411

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

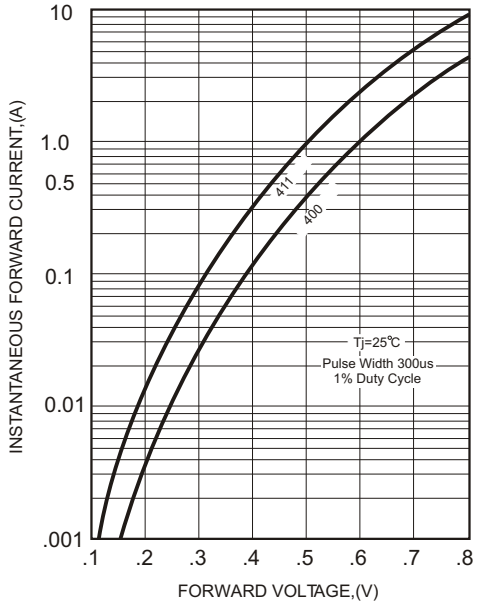


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

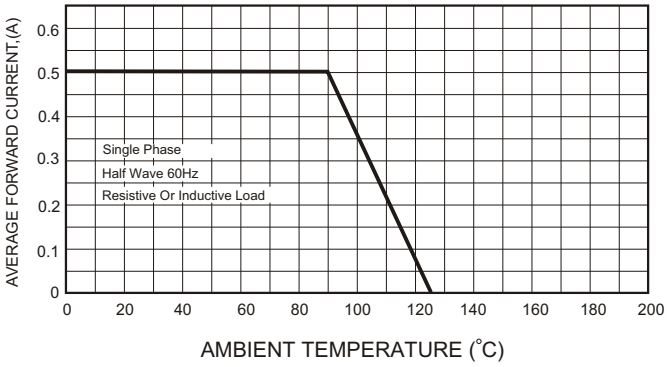


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

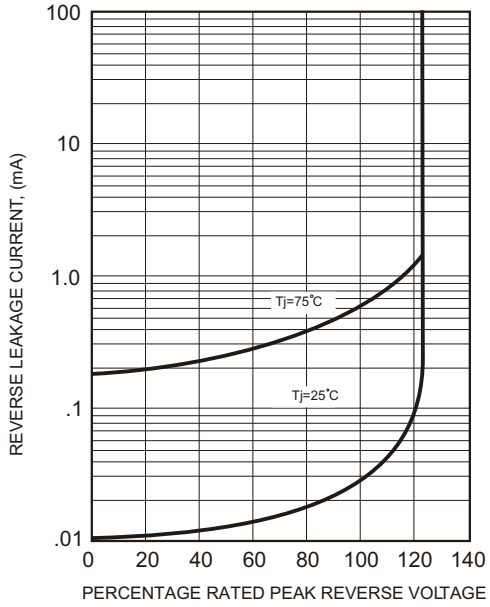


FIG.4-TYPICAL JUNCTION CAPACITANCE

