

Product Preview Electronic Ignition Control Circuit

The MCCF79076, in conjunction with an appropriate Motorola Power Darlington Transistor, provides an economical solution for automotive ignition applications. The MCCF79076 offers optimum performance by providing closed loop operation of the Power Darlington in controlling the ignition coil current.

The MCCF79076 incorporates Flip–Chip Technology which involves the formation of solder bumps, rather than traditional wire bonds, to establish mechanical and electrical contact to the semiconductor chip. This process affords a unique device having improved reliability at elevated operating temperatures.

- Solder Bumped for Flip–Chip Assembly
- Ignition Coil Voltage Internally Limited to 375 V
- Coil Current Limiting to 7.5 A
- Output On-Time (Dwell) Control
- Dwell Feedback Control to Sense Coil Variation
- Hall Sensor Input
- $-30^{\circ}C \le T_A \le +140^{\circ}C$ Ambient Operating Temperature



ELECTRONIC IGNITION CONTROL CIRCUIT

SEMICONDUCTOR TECHNICAL DATA



DW SUFFIX PLASTIC PACKAGE CASE 751G (SO-16L)





This document contains information on a product under development. Motorola reserves the right to change or discontinue this product without notice.

BUMP CONNECTIONS

- High Ground
 Output Current Limit
- 3. Dwell Output
- 4. Supply
- 5. Low Ground
- 6. Reference Dwell Input
- 7. Advance Input
- 8. Bias Voltage
- 9. Est Input
- 10. Reference Output
- 11. Bypass Input
- 900 RPM Detector
 Dwell Control

ORDERING INFORMATION

Device	Operating Temperature Range	Package
MCCF79076	$T_A = -30^{\circ} \text{ to } +125^{\circ}\text{C}$	Flip–Chip
MC79076DW		SO-16L

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MC79076 MCCF79076

OUTLINE DIMENSIONS



DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

CONTROLLING DIMENSION: MILLIMETER.

DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.

MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER

DIMENSION D DOES NOT INCLUDE DAMBAR

PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.13 (0.005) TOTAL IN EXCESS OF D DIMENSION AT MAXIMUM

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	10.15	10.45	0.400	0.411
В	7.40	7.60	0.292	0.299
С	2.35	2.65	0.093	0.104
D	0.35	0.49	0.014	0.019
F	0.50	0.90	0.020	0.035
G	1.27 BSC		0.050 BSC	
J	0.25	0.32	0.010	0.012
Κ	0.10	0.25	0.004	0.009
М	0 °	7 °	0 °	7 °
Р	10.05	10.55	0.395	0.415
R	0.25	0.75	0.010	0.029

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How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution: P.O. Box 20912: Phoenix. Arizona 85036. 1–800–441–2447 or 602–303–5454

MFAX: RMFAX0@email.sps.mot.com - TOUCHTONE 602-244-6609 INTERNET: http://Design-NET.com

JAPAN: Nippon Motorola Ltd.; Tatsumi-SPD-JLDC, 6F Seibu-Butsuryu-Center, 3-14-2 Tatsumi Koto-Ku, Tokyo 135, Japan. 03-81-3521-8315

ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; 8B Tai Ping Industrial Park, 51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852-26629298



