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		REVISIONS	DOC. NO.	SPC-F005	* Effect	DOC. NO. SPC-F005 * Effective: 12/21/98 * DCP No: 680	98 * DC	% No: 680
DCP # REV	REV	DESCRIPTION	DRAWN	DATE	CHECKD	CHECKD DATE APPRVD DATE	APPRVD	DATE
1002	Α	RELEASED	ОХН	3/12/01	MWL	HYO 3/12/01 JWM 12/5/01 DJC 12/5/01	DJC	12/5/01

## SPECIFICATIONS:

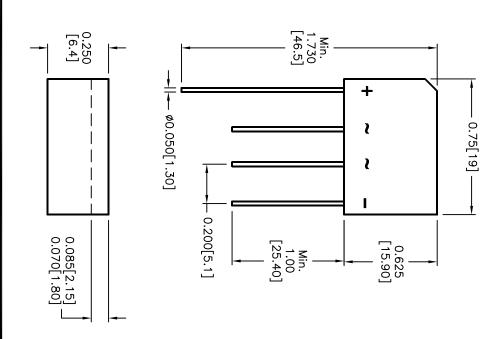


- 2. Maximum RMS Bridge Input Voltage: 420V
- 3. Maximum DC Blocking Voltage: 600V
- 4. Maximum Average Rectified Output Current @ 50°C ambient: 4.0A
- 5. Peak One Cycle Surge Overload Current: 200A
- 6. Maximum Forward Voltage Drop Per Bridge Element @ 4.0A DC: 1.1V
- 7. Maximum (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage: 10 μA
- 8. Maximum (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100°C: 1.0mA 9. I²t Rating for Fusing ( t < 8.3ms): 93.0 A ²Sec
- 10. Typical thermal Resistance per Leg (Note 1) R θJA: 19.0°C/W
- 11. Typical thermal Resistance per Leg (Note 2) R 0JL: 2.4°C/W
- 12. Operating Temperature Range: -55 ~ 125 °C
- 13. Storage Temperature Range: -55 ~ 150°C

- 1. Thermal resistance from junction to ambient with units mounted on 3.0 x 3.0 x 0.11" thick
- $(7.5 \times 7.5 \times 0.3 \text{cm})$  Aluminum plate.
- 2. Thermal resistance from junction to lead with units mounted on P.C.B at 0.375" (9.5mm) lead length and  $0.5 \times 0.5$ " (12 x 12mm) copper pads.

# **MECHANICAL DATA:**

- 1. Terminals: Lead solderable per MIL-STD-202 method 208
- 2. Mounting Position: Any
- 3. Weight: 0.2 ounce, 5.6 grams

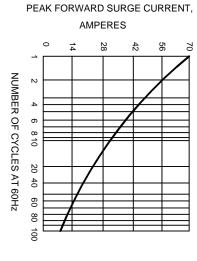


DISCLAIMER ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREN ARE BASED UPON INFORMATION ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED. AND/OR TESTS WE BELLEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETECHNIC THE SUTINGUILTY OF THE PRODUCT FOR THE BEYOND OUR CONTROL, THE USER SHALL DETECHNIC THE SUTINGUILTY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.	TION CONTAINED HEREIN ARE BASED UNITE AND RELIABLE. SINCE CONDITIONS DETERMINE THE SUITABILITY OF THE PLANTING WHATSDEVER IN CONNECTION	JPON INFORMATION IS OF USE ARE PRODUCT FOR THE IN THEREWITH.	7	multicor	np	
JSIMAJHIU SSJ INII	DRAWN BY:	DATE:	DRAWING TITLE:			
SPECIFIED,	HISHAM ODISH	3/12/01	3/12/01 In—Line Miniature Single Phase		Silicon Bridge Rectifier	ifier
DIMENSIONS ARE	CHECKED BY:	DATE:	SIZE DWG. NO.		ELECTRONIC FILE	REV
PURPOSES ONLY.	JEFF MCVICKER	12/5/01	A MCF	MCFL406	19C1133.DWG	⊳
	APPROVED BY:	DATE:		•		
	DANIEL CAREY	12/5/01	SCALE: NTS	U.O.M.: INCHES [mm]	SHEET: 1 OF 2	2

SPC-F005.DWG

TYPICAL FORWARD CHARACTERISTICS (25°)

## **AMBIENT TEMPERATURE OUTPUT CURRENT**



# TYPICAL REVERSE CHARACTERISTICS (25°C)

## INSTANTANEOUS FORWARD CURRENT, AMPERES 100 ∏ 0.1 0.4 2.0 4.0 20 40 10 0.6 0.7 0.8 T<sub>J</sub>=25°C Pulse Width = 300 μS 1% Duty Cycle 0.9 1.0 <u>.</u> 1.2 <u>1</u>.3

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

**NON-RECURRENT SURGE RATING** 

## FORWARD SURGE CURRENT, AMPERES pK

INSTANTANEOUS REVERSE CURRENT (MICRO AMPERES)

30

50

9

0

6

20

40

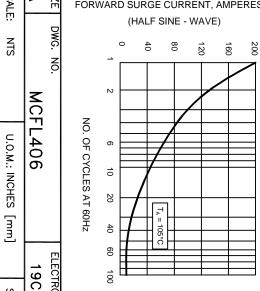
60 80

100 120 140

PERCENT OF RATED PEAK REVERSE VOLTAGE

6

15



SCALE:	Α	SIZE
: NTS		DWG. NO.
	MCF	
U.O.M.: INCHES [mm]	MCFL406	
	19	ELEC1
SHEET:	19C1133.DWG	ELECTRONIC FILE
2 (	DWG	
OF 2	>	RP EV