



# Direct Channel Worldwide Corp.

8F., No. 14, San Ming Rd., Shindian City, Taipei County 231,  
Taiwan (R.O.C)  
T: 886 2 8911 3828 F: 886 2 8911 3829

## 1F1 THRU 1F7

### Features

- High Current Capability
- Low Leakage
- Fast Switching for High Efficiency
- 1.0 Ampere operation at  $T_A=55^\circ\text{C}$  with no thermal runaway
- Exceeds Environmental standards of MIL-S-19500/228

### Maximum Ratings

- Operating Temperature:  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$
- Storage Temperature:  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$
- For capacitive load. Derate current by 20%
- Typical Thermal Resistance:  $67^\circ\text{C/W}$  Junction to Ambient.

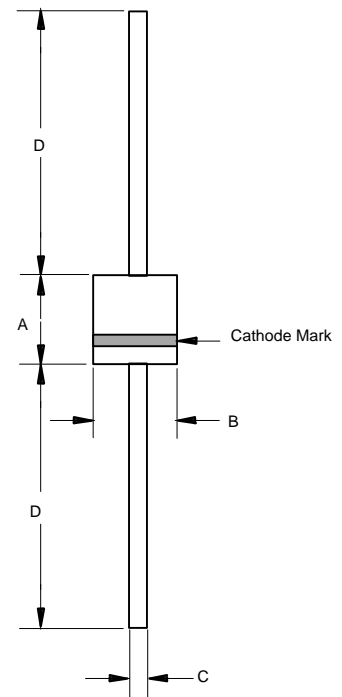
Item Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1F1	50V	35V	50V
1F2	100V	70V	100V
1F3	200V	140V	200V
1F4	400V	280V	400V
1F5	600V	420V	600V
1F6	800V	560V	800V
1F7	1000V	700V	1000V

### Electrical Characteristics @ $25^\circ\text{C}$ Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0 A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.3V	$I_{FM} = 1.0\text{A};$ $T_C = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu\text{A}$ 500 $\mu\text{A}$	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	12pF	Measured at 1.0MHz, $V_R=4.0\text{V}$
Maximum Reverse Recovery Time	$t_{rr}$	150ns 250ns 500ns	$I_F=0.5\text{A},$ $I_R=1\text{A},$ $I_T=0.25\text{A}$
1F1-1F4			
1F5			
1F6-1F7			

## 1.0 Amp Fast Recovery Plastic Rectifier 50 to 1000 Volts

R-1



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.116	0.140	2.90	3.50	
B	0.091	0.102	2.30	2.60	
C	0.020	0.024	0.50	0.60	
D	0.787	-----	20.00	-----	

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