

Micro Commercial Components

- Features Low Leakage Current
- Fast Switching for High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking : Cathode band and type number Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Micro Commercial Components

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Fax:

Maximum Ratings

- Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C
- For capacitive load. Derate current by 20%

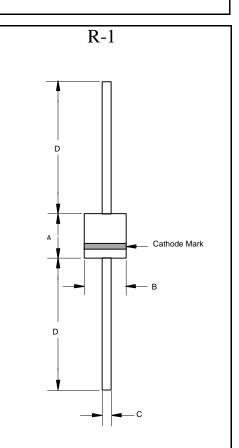
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1F10	1000V	700V	1000V
1F12	1200V	840V	1200V
1F14	1400V	980V	1400V
1F15	1500V	1050V	1500V
1F16	1600V	1120V	1600V
1F18	1800V	1260V	1800V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Rectified Current	l _o	0.5A	$T_A = 25^{\circ}C$
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.8V	$I_{FM} = 0.5A;$ $T_{C} = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0µA	$T_c = 25^{\circ}C$
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time	t _{rr}	300ns	l _F =0.5A, l _R =1A, l _r =0.25A



0.5 Amp Fast **Recovery Rectifier** 1000 to 1800 Volts



DIMENSIONS					
DIM	INCHES		ММ		NOTE
	MIN	МАХ	MIN	МАХ	NOTE
А	0.116	0.140	2.90	3.50	
В	0.091	0.102	2.30	2.60	
С	0.020	0.024	0.50	0.60	
D	0.787		20.00		

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

www.mccsemi.com

1F10 thru 1F18



RATING AND CHARACTERISTIC CURVES

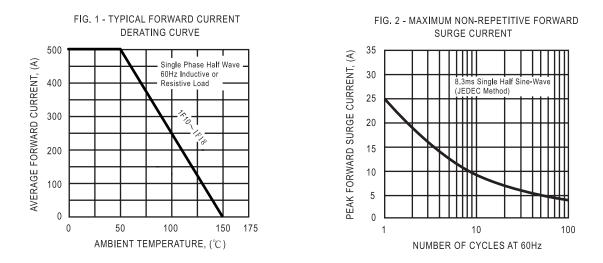
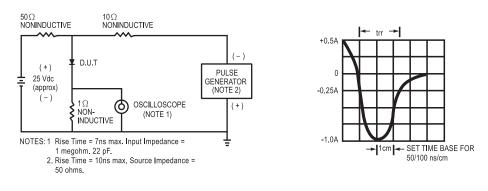


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC







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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel 5Kpcs/Reel
(Part Number)-AP	Ammo Packing;3Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Box

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