

Micro Commercial Components Corp.

Products End of Life Notification

Issue date: Sep-7th-2008

Last Buy Date :Dec-6th-2008

Description and Purpose:

MCC has undergone a review of its core business and products , and determined to discontinue below products:

Discontinued Devices	Possible Replacements
FR6A	None
FR6B	None
FR6D	None
FR6G	None
FR6K	None
FR6M	None





Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

FR6A THRU FR6M

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Fast Switching Speed For High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Marking: Cathode band and type number

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR6A	50V	35V	50V
FR6B	100V	70V	100V
FR6D	200V	140V	200V
FR6G	400V	280V	400V
FR6K	800V	560V	800V
FR6M	1000V	700V	1000V

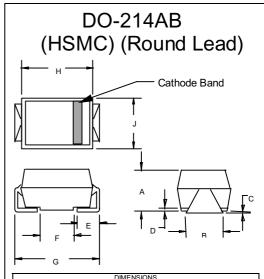
Electrical Characteristics @ 25°C Unless Otherwise Specified

			<u>-</u>
Average Forward	I _{F(AV)}	6 A	$T_A = 55^{\circ}C$
Current			
Peak Forward Surge	I _{FSM}	300A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.30V	$I_{FM} = 6.0A;$
Forward Voltage			$T_A = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I_{R}	10μΑ	T _A = 25°C
Rated DC Blocking		50μΑ	$T_A = 55^{\circ}C$
Voltage			
Maximum Reverse			
Recovery Time			
FR6A-FR6G	T_{rr}	150ns	$I_F = 0.5A, I_R = 1.0A,$
FR6K-FR6M		500ns	I_{rr} =0.25A

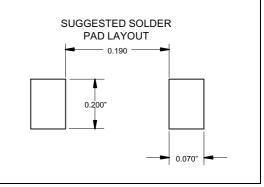
^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

6 Amp Fast Recovery Rectifier 50 to 1000 Volts



BINIENGIGIO					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.200	.214	5.08	5.43	
В	.177	.203	4.70	5.30	
С	.002	.005	.05	.13	
D	-	.02	-	.51	
Е	.047	.056	1.20	1.42	
F	.168	.179	4.27	4.55	
G	.309	.322	7.85	8.18	
Н	.239	.243	6.08	6.18	
J	.234	.240	5.95	6.10	

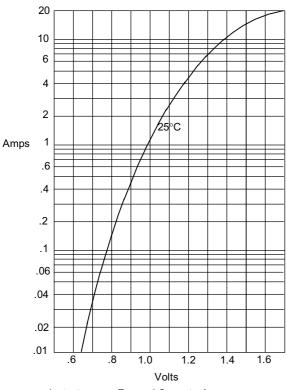




FR6A thru FR6M

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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

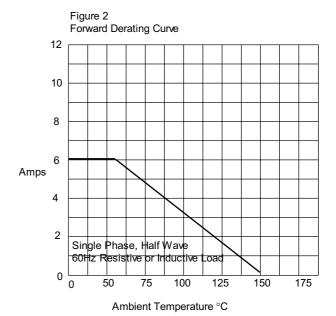
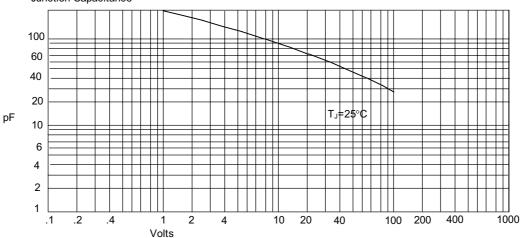
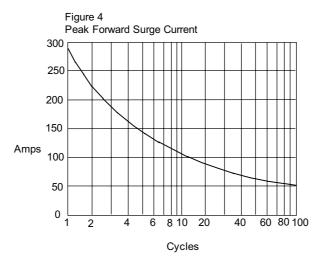


Figure 3 Junction Capacitance



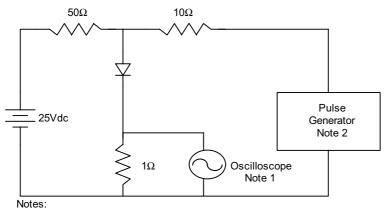


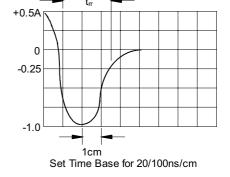
FR6A thru FR6M



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram





- 1. Rise Time = 7ns max.
- Input impedance = 1 megohm, 22pF
- 2. Rise Time = 10ns max.
- Source impedance = 50 ohms
- 3. Resistors are non-inductive



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel

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