

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### 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

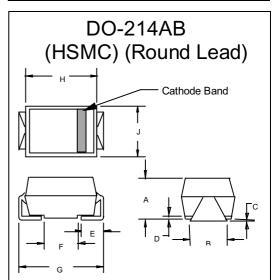
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR6A	50V	35V	50V
FR6B	100V	70V	100V
FR6D	200V	140V	200V
FR6G	400V	280V	400V
FR6J	600V	420V	600V
FR6K	800V	560V	800V
FR6M	1000V	700V	1000V

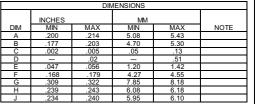
### Electrical Characteristics @ 25°C Unless Otherwise Specified

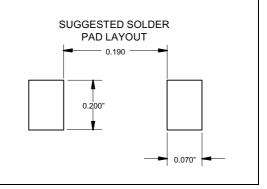
Average Forward	I <sub>F(AV)</sub>	6 A	T <sub>A</sub> = 55°C	
Current				
Peak Forward Surge	I <sub>FSM</sub>	300A	8.3ms, half sine	
Current				
Maximum				
Instantaneous	V <sub>F</sub>	1.30V	I <sub>FM</sub> = 6.0A;	
Forward Voltage			T <sub>A</sub> = 25°C*	
Maximum DC				
Reverse Current At	I <sub>R</sub>	10µA	T <sub>A</sub> = 25°C	
Rated DC Blocking		50µA	T <sub>A</sub> = 55°C	
Voltage				
Maximum Reverse				
Recovery Time				
FR6A-FR6G	T <sub>rr</sub>	150ns	l <sub>F</sub> =0.5A, l <sub>R</sub> =1.0A,	
FR6J		250ns	I <sub>rr</sub> =0.25A	
FR6K-FR6M		500ns		

# FR6A THRU FR6M

# 6 Amp Fast Recovery Rectifier 50 to 1000 Volts







\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

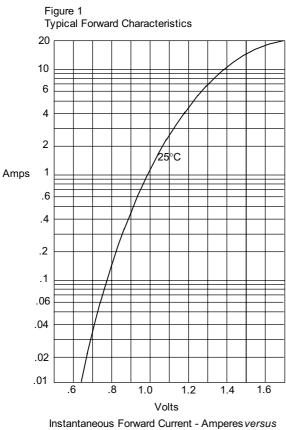
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

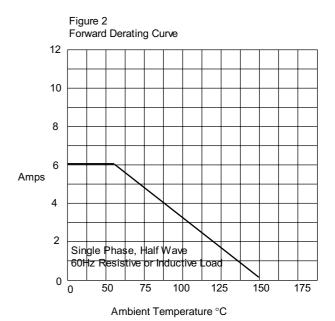
## www.mccsemi.com



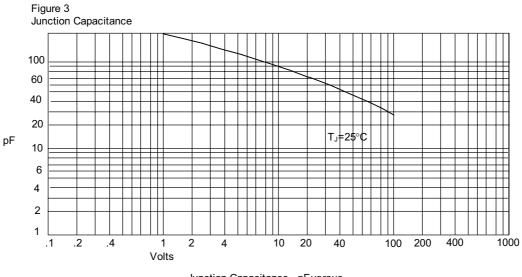


## FR6A thru FR6M





Instantaneous Forward Voltage - Volts



Junction Capacitance - pF*versus* Reverse Voltage - Volts

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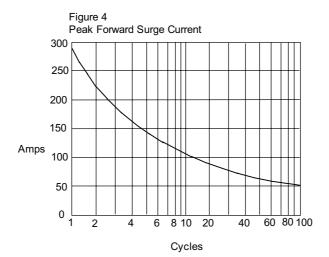
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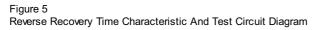


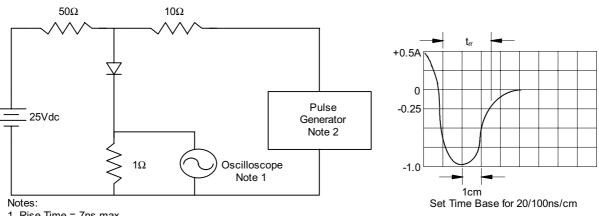
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# FR6A thru FR6M



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles





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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