

**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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Marking : Cathode band and type number

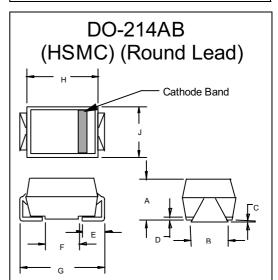
### **Maximum Ratings**

- 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
FR8J	600V	420V	600V

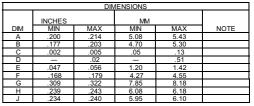
# FR8J

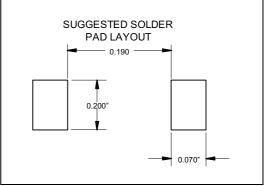
# 8 Amp Fast **Recovery Rectifier** 600 Volts



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

	-		-
Average Forward Current	$I_{F(AV)}$	8 A	$T_A = 55^{\circ}C$
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> = 8.0A;
Forward Voltage			T <sub>A</sub> = 25°C*
Maximum DC			
Reverse Current At	I <sub>R</sub>	10μΑ	T <sub>A</sub> = 25°C
Rated DC Blocking		50μΑ	T <sub>A</sub> = 100°C
Voltage			
Maximum Reverse			
Recovery Time			l <sub>⊧</sub> =0.5A, l <sub>⊧</sub> =1.0A,
FR8J	T <sub>rr</sub>	250ns	I <sub>rr</sub> =0.25A
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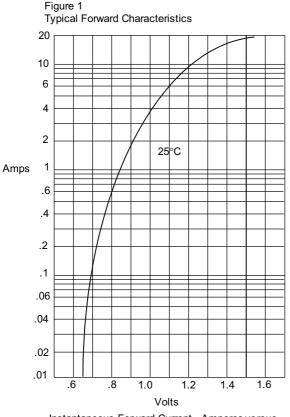
\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

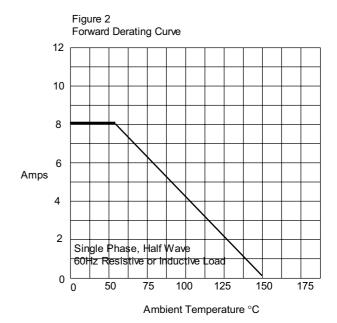
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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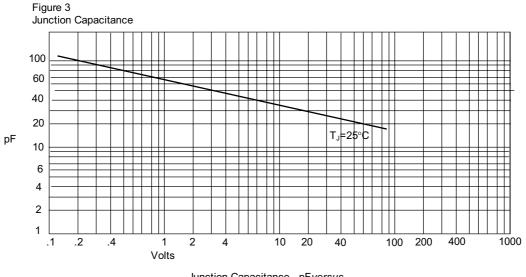








Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



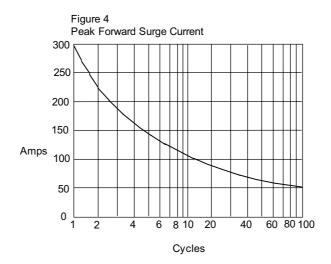
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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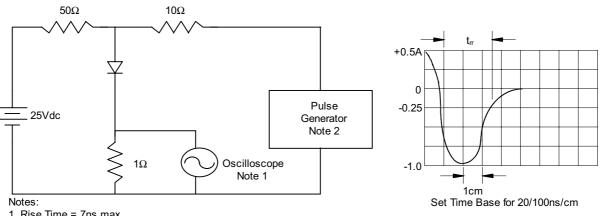


FR8J



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&Reel: 1.5Kpcs/Reel	

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