

**Micro Commercial Components** 



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#### 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
- Halogen free available upon request by adding suffix "-HF"

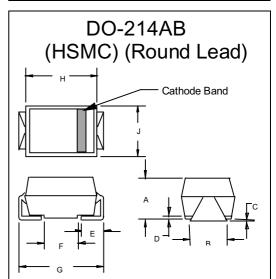
#### Maximum Rati ngs

- 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
FR6J	600V	420V	600V

## FR6J

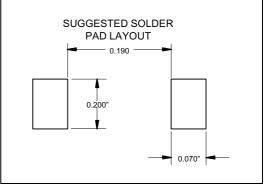
# 6 Amp Fast **Recovery Rectifier** 600 Volts



#### 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		50μΑ	T <sub>A</sub> = 55°C
Voltage			
Maximum Reverse			
Recovery Time			I <sub>⊧</sub> =0.5A, I <sub>⊧</sub> =1.0A,
FR6J	Trr	250ns	I <sub>rr</sub> =0.25A
	-11	200110	

#### NSION NCHES MIN MIN MA NOTE 5.0 4.70 5.3 .05 1.20 1.4 4.2 7.8 4. 8.18 <u>6 0</u>



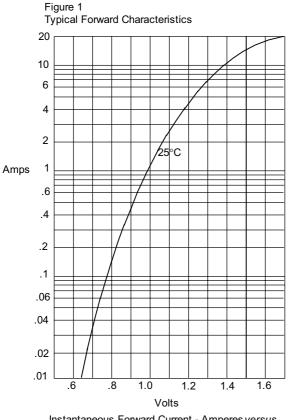
\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

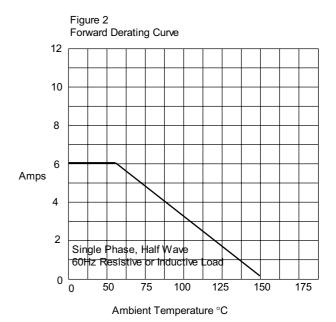
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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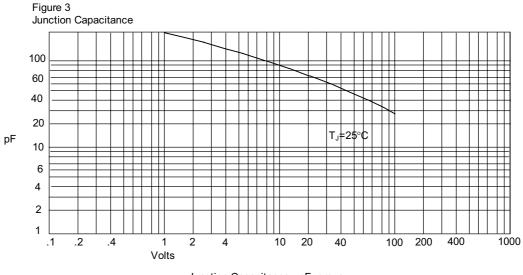


# FR6J





Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



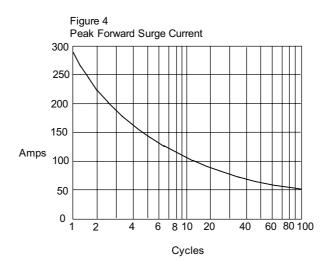
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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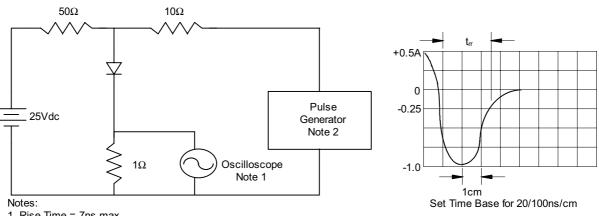


### FR6J



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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2013/01/01



#### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 1.5Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

#### \*\*\*IMPORTANT NOTICE\*\*\*

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