NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components



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FR6J

Features

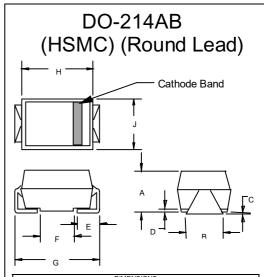
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Fast Switching Speed For High Efficiency Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Cathode band and type number
- Halogen free available upon request by adding suffix "-HF"

Maximum Kat

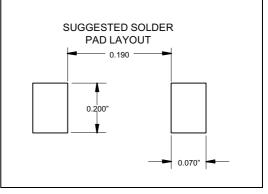
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

	Maximum		Maximum DC
MCC	Recurrent	Maximum	Blocking
Part Number	Peak Reverse	RMS Voltage	Voltage
	Voltage		
FR6J	600V	420V	600V

6 Amp Fast **Recovery Rectifier** 600 Volts



		DIN	MENSIONS		
	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	



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	6 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.30V	I _{FM} = 6.0A; T _A = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 50μA	T _A = 25°C T _A = 55°C
Maximum Reverse Recovery Time FR6J	T _{rr}	250ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A

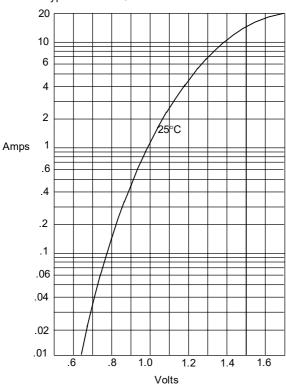
^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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



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Figure 1
Typical Forward Characteristics



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

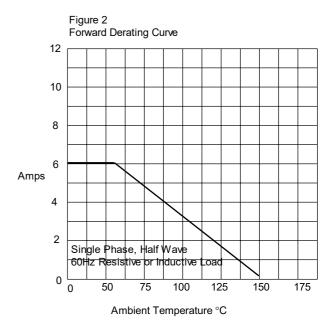
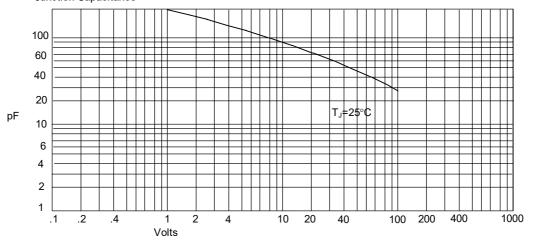


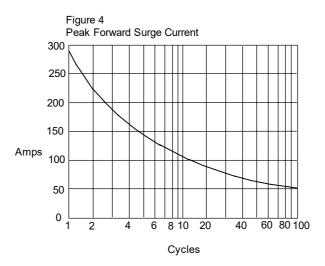
Figure 3
Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts



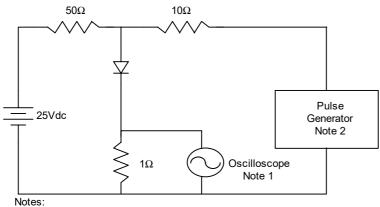
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Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram

2. Rise Time = 10ns max. Source impedance = 50 ohms 3. Resistors are non-inductive



Notes:

1Ω Oscilloscope
Note 1

1cm
Set Time Base for 20/100ns/cm
Input impedance = 1 megohm, 22pF

+0.5A

0

-0.25



Ordering Information:

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

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

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