NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 FR8J

Features

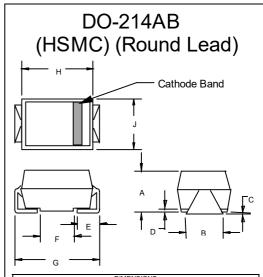
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Fast Switching Speed For High Efficiency Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Cathode band and type number Halogen free available upon request by adding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

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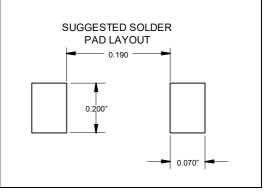
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

	Maximum		Maximum DC
MCC	Recurrent	Maximum	Blocking
Part Number	Peak Reverse	RMS Voltage	Voltage
	Voltage		
FR8J	600V	420V	600V

8 Amp Fast **Recovery Rectifier** 600 Volts



DIMENSIONS							
	INCHES		ММ				
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			
E	.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	I _{F(AV)}	8 A	$T_A = 55^{\circ}C$
Current			
Peak Forward Surge	I_{FSM}	300A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.30V	$I_{FM} = 8.0A;$
Forward Voltage			$T_A = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I_R	10μΑ	$T_A = 25^{\circ}C$
Rated DC Blocking		50μΑ	T _A = 100°C
Voltage			
Maximum Reverse			
Recovery Time			$I_{E}=0.5A, I_{R}=1.0A,$
FR8J	T_{rr}	250ns	$I_{rr}=0.25A$
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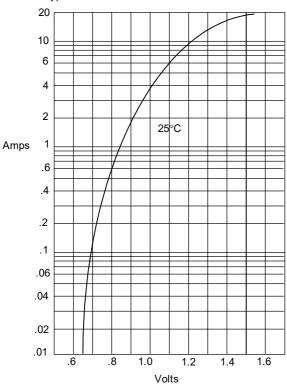
*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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



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Figure 1
Typical Forward Characteristics



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

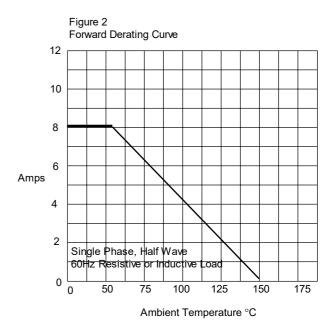
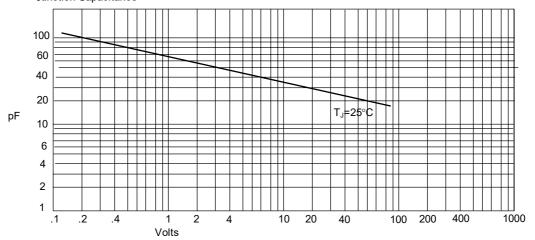


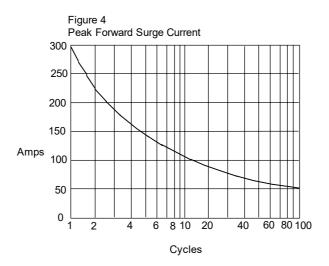
Figure 3
Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

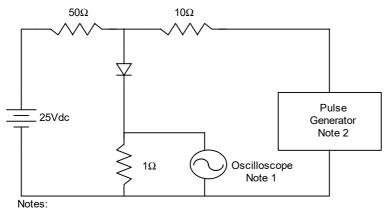


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Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram



+0.5A

0

-0.25

1cm

Set Time Base for 20/100ns/cm

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

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

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