NOT RECOMMENDED FOR NEW DESIGNS





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Features

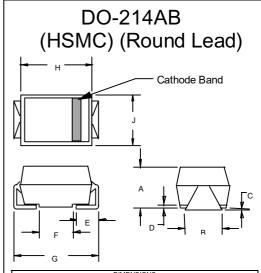
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Fast Switching Speed For High Efficiency Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Cathode band and type number
- Halogen free available upon request by adding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

Maximum Rai

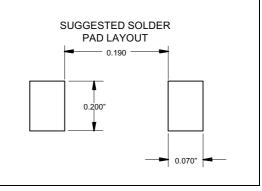
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

	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



DIMENSIONS						
	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	I _{FSM}	300A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.30V	$I_{FM} = 6.0A;$
Forward Voltage			$T_A = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I_{R}	10μΑ	T _A = 25°C
Rated DC Blocking		50μΑ	$T_A = 55^{\circ}C$
Voltage			
Maximum Reverse			
Recovery Time			I _F =0.5A, I _R =1.0A,
FR6J	T_{rr}	250ns	I _{rr} =0.25A

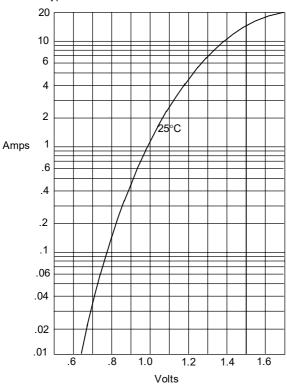
^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

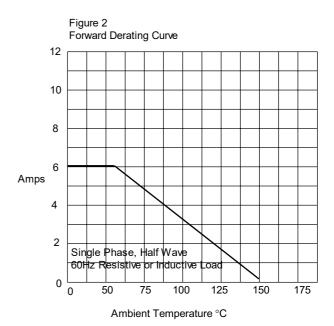
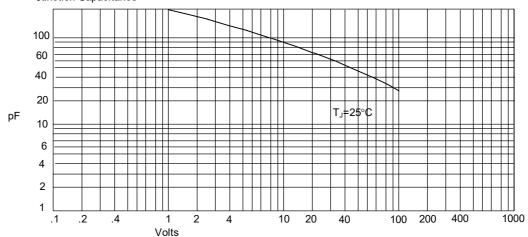
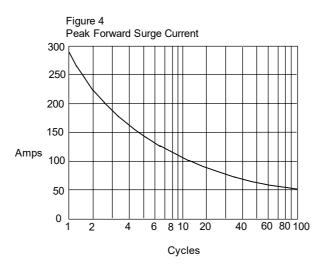


Figure 3 Junction Capacitance



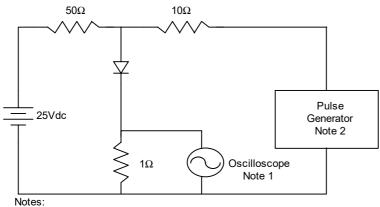


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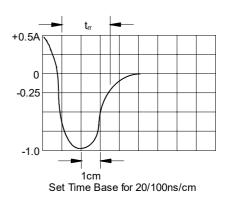


Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram



1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
2. Rise Time = 10ns max.
Source impedance = 50 ohms
3. Resistors are non-inductive





Ordering Information:

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

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

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