NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components



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FR10A THRU FR10M

Features

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

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
FR10A	50V	35V	50V
FR10B	100V	70V	100V
FR10D	200V	140V	200V
FR10G	400V	280V	400V
FR10J	600V	420V	600V
FR10K	800V	560V	800V
FR10M	1000V	700V	1000V

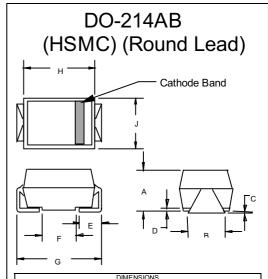
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10 A	T _A = 55°C
Peak Forward Surge	I _{FSM}	300A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.30V	$I_{FM} = 10.0A;$
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			
FR10A-FR10G	T_{rr}	150ns	$I_F = 0.5A, I_R = 1.0A,$
FR10J		250ns	I _{rr} =0.25A
FR10K-FR10M		500ns	

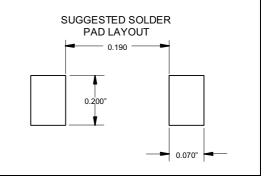
*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

10 Amp Fast Recovery Rectifier 50 to 1000 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	
E	.047	.056	1.20	1.42	
F	.168	.179	4.27	4.55	
G	.309	.322	7.85	8.18	
Η	.239	.243	6.08	6.18	
J	.234	.240	5.95	6.10	

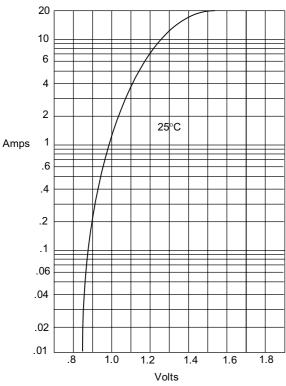




FR10A thru FR10M

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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

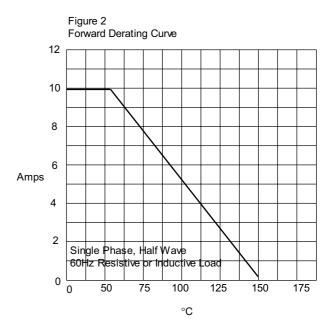
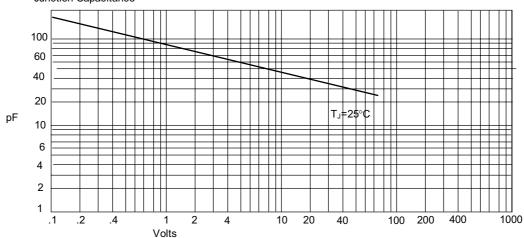


Figure 3
Junction Capacitance

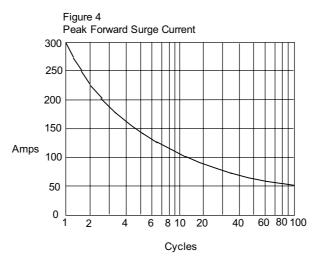


Junction Capacitance - pF*versus* Reverse Voltage - Volts



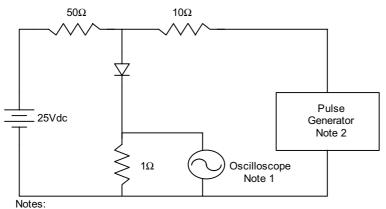
FR10A thru FR10M

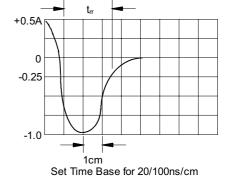
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Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

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: 1.5Kpcs/Reel		

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

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