

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

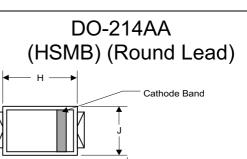
Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number		Peak Reverse	Voltage	Blocking		
		Voltage	_	Voltage		
FR1A	FR1A	50V	35V	50V		
FR1B	FR1B	100V	70V	100V		
FR1D	FR1D	200V	140V	200V		
FR1G	FR1G	400V	280V	400V		
FR1J	FR1J	600V	420V	600V		
FR1K	FR1K	800V	560V	800V		
FR1M	FR1M	1000V	700V	1000V		



FR1A

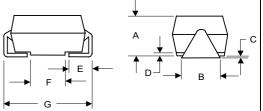
THRU

FR1M

1 Amp Fast Recovery

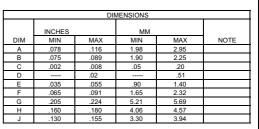
Silicon Rectifier

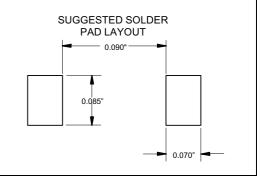
50 to 1000 Volts



Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	1.0A	T _a = 90°C
I _{FSM}	30A	8.3ms, half sine
V_{F}	1.30V	I _{FM} = 1.0A; T _J = 25°C*
I _R	5μΑ 200μΑ	T _J = 25°C T _J = 125°C
Trr	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
CJ	12pF	Measured at 1.0MHz, V _R =4.0V
	I _{FSM} V _F I _R T _{rr}	I _{FSM} 30A V _F 1.30V I _R 5μA 200μA T _{rr} 150ns 250ns 500ns C _J 12pF



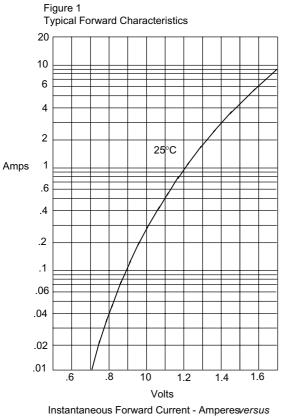


*Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

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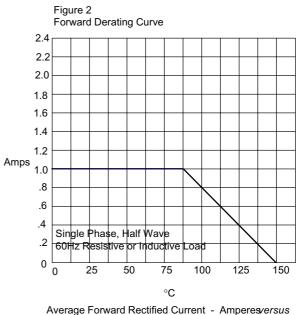




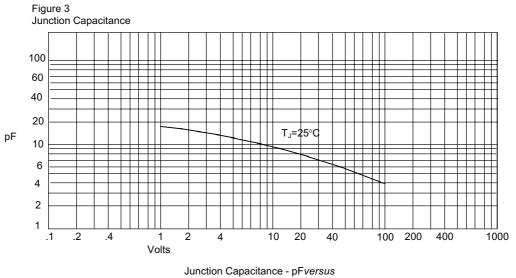
Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts



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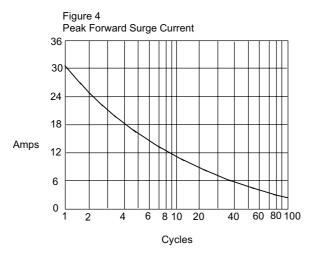
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Reverse Voltage - Volts

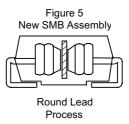
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FR1A thru FR1M



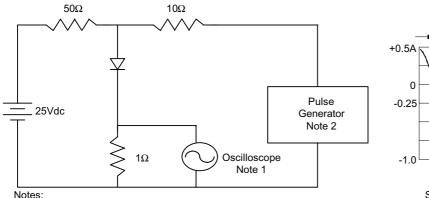


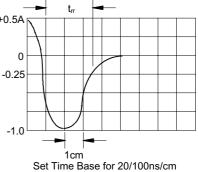
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram





Notes:

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&Reel3Kpcs/Reel	

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