

High-reliability discrete products and engineering services since 1977

## MR2400FR-MR2410FR

### 24A FAST RECOVERY RECTIFIER

#### **FEATURES**

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

#### **MAXIMUM RATINGS**

-65°C to +150°C			
-65°C to +175°C			
0.8°C/W Junction to case			
Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
50V	35V	50V	
100V	70V	100V	
200V	140V	200V	
400V	280V	400V	
600V	420V	600V	
800V	560V	800V	
1000V	700V	1000V	
	800V Reverse Voltage 50V 100V 200V 400V 600V	-65°C to +175°C  0.8°C/W Junction to case  Maximum Recurrent Peak Reverse Voltage  50V 35V 100V 70V 200V 140V 400V 280V 600V 420V 800V 560V	

#### **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Test Conditions
Average Forward Current	I <sub>F(AV)</sub>	24A	T <sub>C</sub> = 125°C
Peak Forward Surge Current	I <sub>FSM</sub>	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub> *	1.15V	I <sub>FM</sub> = 24.0A T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	25μA 1.0μA	T <sub>C</sub> = 25°C T <sub>C</sub> = 100°C
Maximum Reverse Recovery Time	t <sub>rr</sub>	100 to 250ns	$I_{\rm F} = 0.5$ A, $I_{\rm R} = 1.0$ A, $I_{\rm rr} = 0.25$ A
Typical Junction Capacitance	C <sub>1</sub>	95pF	Measured at 1.0MHz, V <sub>R</sub> = 4.0V

<sup>\*</sup>Pulse Test: Pulse width 300 µsec, Duty cycle 1%



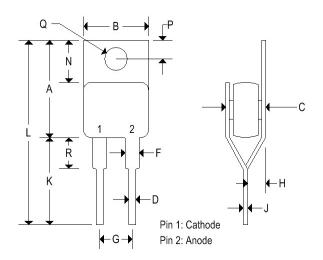
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#### **MECHANICAL CHARACTERISTICS**

Case	Digi AA
Pin out	See below
Marking	Alpha-numeric



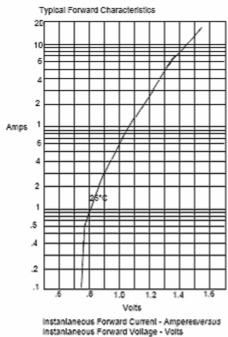
	Digi AA			
	Inches		Millim	neters
	Min	Max	Min	Max
Α	0.560	0.625	14.220	15.88
В	0.380	0.420	9.650	10.670
C	0.284	0.310	7.210	7.870
D	0.025	0.045	0.640	1.140
F	0.060	0.090	1.520	2.290
G	0.170	0.210	4.320	5.330
Н	0.080	0.115	2.030	2.920
J	0.023	0.029	0.580	0.740
K	-	0.562	-	14.270
L	-	1.187	-	30.150
N	0.230	0.270	5.840	6.860
Р	0.100	0.120	2.5400	3.050
ø	0.139	0.147	3.530	3.730
R	-	0.200	-	5.080

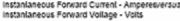


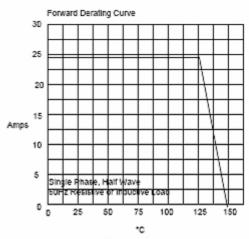
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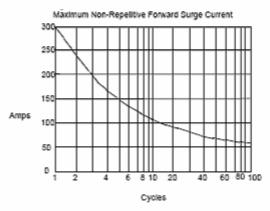
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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -\*C



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



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