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Concerned Products:	Customer Notification		Date: Jun. 26 th 98
<i>μPD70F3003</i> <i>μPD703003A</i> <i>μPD70F3003A</i> <i>μPD703025A</i> <i>μPD70F3025A</i>			Preliminary Injected Current Specification V853/V853A
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Injected Current Specification V853/V853A (preliminary)

Operating condition

μPD70F3003:	Vdd= 4.75 to 5.75V,	Vss = 0V,	Ta = -40°C to +70°C
μPD70F3003A/μPD703003A:	Vdd= 4.5 to 5.5V,	Vss = 0V,	Ta = -40°C to +85°C
μPD70F3025A/μPD703025A:	Vdd= 4.5 to 5.5V,	Vss = 0V,	Ta = -40°C to +85°C

Parameter	Test Conditions		Peak ³⁾ (max)	Ave. ⁴⁾ (max)	Unit
VIN > Vdd	Per pin	Input port pins except ANIn	2.0	0.2	mA
		ANIn ⁽¹⁾ (n=0 to 7)	0.2	0.02	mA
	Total	Input port pins except ANIn	10.0	1.0	mA
		ANIn ⁽²⁾ (n=0 to 7)	0.2	0.02	mA
VIN < Vss	Per pin	Input port pins except ANIn	-0.1	-0.01	mA
		ANIn ⁽¹⁾ (n=0 to 7)	-0.2	-0.02	mA
	Total	Input port pins except ANIn	-1.0	-0.1	mA
		ANIn ⁽²⁾ (n=0 to 7)	-0.2	-0.02	mA

Note(s):

1. Injected currents generated due to the overvoltage applied to an analog input pin, would affect the A/D conversion result. The affected A/D conversion result is the sum of the A/D conversion result without injected current and ± 2 LSB.
2. The total injected current generated due to the overvoltage applied to all analog input pins, would affect the A/D conversion result. The affected A/D conversion result is the sum of the A/D conversion result without injected currents and ± 4 LSB.
3. Peak maximum is the value of current which the above mentioned devices can sustain for a maximum time duration of 1 μsec.
4. Average maximum current is calculated by the following formular

$$I_{AVE} = \frac{1}{T} \int_0^T |i(t)|^{\frac{3}{2}} dt \Big|^{\frac{2}{3}}$$

where i(t) is the injected current and interval T is the device life time.