

INFORMATION ONLY NOTIFICATION

This is to inform you that a minor change is being made to the following product(s). This notification is for your information only.

If you have any questions concerning this change, please contact:

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Implementation of change:  
 Expected 1st Device Shipment Date: 2008/04/14

Earliest Year/Work Week of Changed Product: 0816

Change Type Description: Data Book Specifications

Description of Change (From): Electrical Characteristics (Ta = -40C to 85C) for If(off) Control Current for Off-State Resistance

Description of Change (To): Electrical Characteristics (Ta = 25C) for If(off) Control Current for Off-State Resistance

Reason for Change : Correct the temperature range for the electrical characteristics of If(off)

Change From

**Electrical Characteristics** (TA = -40°C to +85°C Unless otherwise specified)

**Input Characteristics**

Symbol	Parameters/ Test Conditions	Connection	Limit	HSR312	HSR312L	HSR412	HSR412L	Units
I <sub>F(ON)</sub>	Control Current	Series or Parallel	Max	2.0	2.0	3.0	3.0	mA
I <sub>F(OFF)</sub>	Control Current for Off-State Resistance	Series or Parallel	Min	0.4	0.4	0.4	0.4	mA
I <sub>F</sub>	Control Current Range	Series or Parallel	Min	2.0	2.0	3.0	3.0	mA
			Max	25	25	25	25	
V <sub>R</sub>	Reverse Voltage	Series or Parallel	Min	7	7	7	7	V
V <sub>F</sub>	Forward Voltage (I <sub>F</sub> =10 mA)	Series or Parallel	Max	1.6	1.6	1.6	1.6	V

Change To

**Electrical Characteristics** ( $T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$  unless otherwise specified)

**Input Characteristics**

Symbol	Parameters/ Test Conditions	Connection	Limit	HSR312	HSR312L	HSR412	HSR412L	Units
$I_{F(ON)}$	Control Current	Series or Parallel	Max.	2.0	2.0	3.0	3.0	mA
$I_{F(OFF)}$	Control Current for Off-State Resistance ( $T_A = 25^\circ\text{C}$ )	Series or Parallel	Min.	0.4	0.4	0.4	0.4	mA
$I_F$	Control Current Range	Series or Parallel	Min.	2.0	2.0	3.0	3.0	mA
			Max.	25	25	25	25	
$V_R$	Reverse Voltage	Series or Parallel	Min.	7	7	7	7	V
$V_F$	Forward Voltage ( $I_F = 10\text{mA}$ )	Series or Parallel	Max.	1.6	1.6	1.6	1.6	V

Product Id Description : Photovoltaic Solid-State Relay Optocouplers in 6PIN DIP White Package

Affected FSIDs :

HSR312	HSR312L	HSR312LS
HSR312LSR2	HSR312S	HSR312SR2
HSR412	HSR412L	HSR412LS
HSR412LSR2	HSR412S	HSR412SR2