

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
IF(ON)	Control Current	Series or Parallel	Max	2.0	2.0	3.0	3.0	mA
IF(OFF)	Control Current for Off-State Resistance	Series or Parallel	Min	0.4	0.4	0.4	0.4	mA
IF	Control Current Range	Series or Parallel	Min	2.0	2.0	3.0	3.0	mA
			Max	25	25	25	25	
VR	Reverse Voltage	Series or Parallel	Min	7	7	7	7	V
VF	Forward Voltage (IF=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