Output

Parameter	Test condition	Symbol	Value	Unit
Reverse voltage		V_R	≤ 15	V
Power dissipation		P_{diss}	≤ 50	mW
Derate linearly from 25 °C			≤ 0.65	mW/°C
Junction temperature		T_j	≤ 100	°C

Coupler

Parameter	Test condition	Symbol	Value	Unit
Isolation test voltage		V_{ISO}	≤ 2130	V_{DC}
Total package power dissipation		P_t	≤ 250	mW
Derate linearly from 25 °C			≤ 2.8	mW/°C
Storage temperature		T_{stg}	- 40 to + 150	°C
Operating temperature		T_{amb}	0 to + 75	°C
Lead soldering time at 260 °C			≤ 10	s
Isolation resistance	V_{IO} = 500, T_{amb} = 25 °C	R_{IO}	≥ 10^{12}	Ω
	V_{IO} = 500, T_{amb} = 100 °C	R_{IO}	≤ 10^{11}	Ω

Electrical Characteristics

T_{amb} = 25 °C, unless otherwise specified
Minimum and maximum values are testing requirements. Typical values are characteristics of the device and are the result of engineering evaluation. Typical values are for information only and are not part of the testing requirements.

Input

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	I_F = 10 mA	V_F		1.8	2.1	V
Reverse current	V_R = 3.0 V	I_R		0.01	10	µA
V_F temperature coefficient		$\Delta V_F/\Delta$ °C		TBD		mV/°C
Junction capacitance	V_F = 0 V, f = 1.0 MHz	C_j		15		pF
Dynamic resistance		$\Delta V_F/\Delta I_F$		6.0		Ω

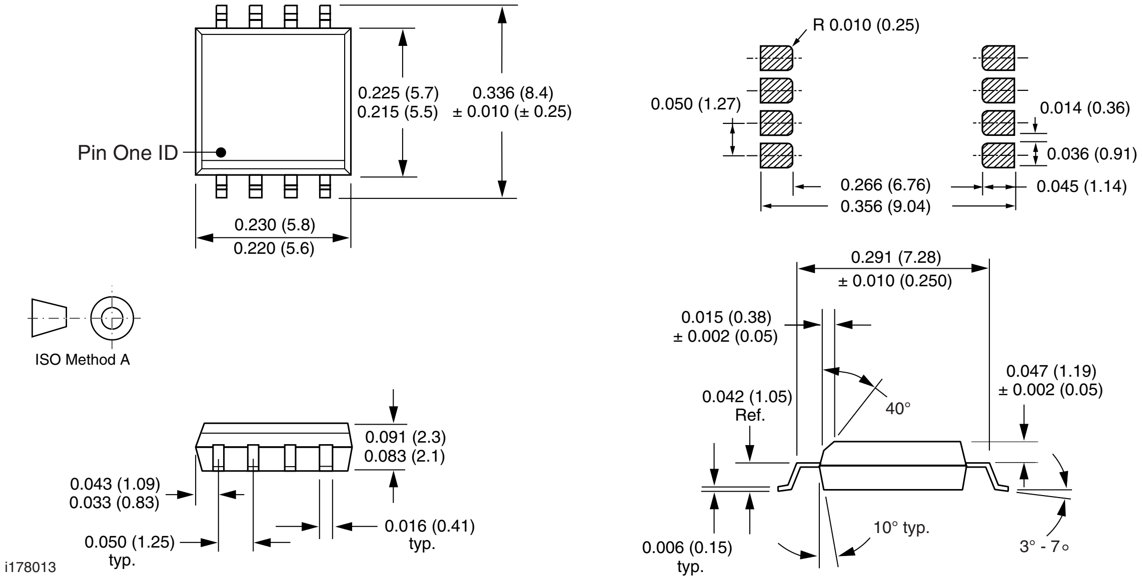
Output

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Junction capacitance	V_F = 0 V, f = 1.0 MHz	C_j		12		pF
AC Characteristics photovoltaic mode						
Frequency response	I_{P1} = 25 A Modulation current ΔI_{P1} = ± 6.0 µA	BW (-3 db)		1.0		MHz
Phase response	I_{P1} = 25 A Modulation current ΔI_{P1} = ± 6.0 µA			45		Deg.
Rise time	I_{P1} = 25 A Modulation current ΔI_{P1} = ± 6.0 µA	t_r		350		ns

Coupler

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Capacitance (input-output)	$V_F = 0$ V, f = 1.0 MHz	C_{IO}		1.0		pF
Common mode capacitance	$V_F = 0$ V, f = 1.0 MHz	C_{CM}		0.5		pF
Coupled characteristics						
K_1	$I_F = 2.0$ mA, $V_D = 0$ V	K1	0.007			
THD	$f_0 = 316$, $I_{PI} = 35$ µA, $V_D = 0$ V				- 79	db
$K_3 = K_2/K_1$	$I_F = 2.0$ mA, $V_D = 0$ V		0.70		1.30	

Package Dimensions in Inches (mm)



Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

1. Meet all present and future national and international statutory requirements.
2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

Vishay Semiconductor GmbH, P.O.B. 3535, D-74025 Heilbronn, Germany

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