

Product Overview

FODM8801C: OptoHiT™ Series, High-Temperature Phototransistor

For complete documentation, see the data sheet.

The OptoHiT™ FODM8801 is a first-of-its-kind phototransistor, utilizing ON Semiconductor's leading-edge, proprietary process technology to achieve high operating temperature characteristics, up to 125°C. The optocoupler consists of an aluminum gallium arsenide (AlGaAs) infrared light emitting diode (LED) optically coupled to a phototransistor, in a compact half pitch, mini-flat, 4-pin package. It delivers high current transfer ratio at very low input current. The input-output isolation voltage, VISO, is rated at 3750 VAC RMS.

Features

- Utilizing proprietary process technology to achieve high operating temperature up to 125°C
- Guaranteed Current Transfer Ratio (CTR) specifications across full temperature range
- Excellent CTR linearity at high temperature
- CTR at very low input current, IF
- High isolation voltage regulated by safety agency, UL1577, 3750 VAC RMS for 1 min. and DIN EN/IEC60747-5-2 (pending approval)
- Compact half pitch, mini-flat, 4-pin package (1.27mm lead pitch, 2.4mm maximum standoff height)
- > 5mm creepage and clearance distance
- Applicable to Infrared Ray reflow, 245°C

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	CTR (Min) (%)	CTR (Max) (%)	CTR tested @ IF (mA)	V _{CE(sat)} (Max) (V)	V _{CE0} (Min) (V)	V _{CB0} (Min) (V)	V _{EC0} (Min) (V)	t _{on} (Max) (μs)	t _{off} (Max) (μs)	V _{ISO} (Min) (V)	T _{OPR} (Min) (°C)	T _{OPR} (Max) (°C)	Package Type
FODM8801C	0.4267	Pb-free non AEC-Q and PPAP	Active	1	200	400	1	0.4	75	-	7	6	6	3750	-40	125	MFP-4
FODM8801CR2	0.4533	Pb-free non AEC-Q and PPAP	Active	1	200	400	1	0.4	75	-	7	6	6	3750	-40	125	MFP-4
FODM8801CR2V	0.4667	Pb-free non AEC-Q and PPAP	Active	1	200	400	1	0.4	75	-	7	6	6	3750	-40	125	MFP-4
FODM8801CV	0.44	Pb-free non AEC-Q and PPAP	Active	1	200	400	1	0.4	75	-	7	6	6	3750	-40	125	MFP-4

For more information please contact your local sales support at www.onsemi.com.

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