

Product Overview

MCT5211M: 6-Pin DIP Low Input Current Phototransistor Output Optocoupler

For complete documentation, see the data sheet.

The MCT52XXM series consists of a high-efficiency AlGaAs, infrared emitting diode, coupled with an NPN phototransistor in a six pin dual-in-line package. The MCT52XXM is well suited for CMOS to LSTT/TTL interfaces, offering 250% CTR_{CE(SAT)} with 1mA of LED input current. When an LED input current of 1.6mA is supplied data rates to 20K bits/s are possible. The MCT52XXM can easily interface LSTTL to LSTTL/ TTL, and with use of an external base to emitter resistor data rates of 100K bits/s can be achieved.

Features

- High CTR_{CE(SAT)} comparable to Darlington
- CTR guaranteed 0°C to 70°C
- High common mode transient rejection 5kV/μs
- Data rates up to 150kbits/s (NRZ)
- Underwriters Laboratory (UL) recognized, file #E90700, volume 2
- IEC60747-5-2 approved (ordering option V)

Applications

- Consumer Appliances
- Industrial Motor

Part Electrical Specifications

Product	Compliance	Status	Chan nels	CTR (Min) (%)	CTR (Max) (%)	CTR teste d @ IF (mA)	V _{CE(sat)} (Max) (V)	BV _{CE} (Min) (V)	BV _{CB} (Min) (V)	BV _{EC} (Min) (V)	t _{on} (Max) (μs)	t _{off} (Max) (μs)	V _{ISO} (Min) (V)	T _{OPR} (Min) (°C)	T _{OPR} (Max) (°C)	Pack age Type
MCT5211M	Pb-free	Active	1	150	-	1.6	0.4	30	30	5	15	11	4200	-40	100	PDIP -6
MCT5211SR2M	Pb-free	Active	1	150	-	1.6	0.4	30	30	5	15	11	4200	-40	100	PDIP -6
MCT5211TVM	Pb-free	Active	1	150	-	1.6	0.4	30	30	5	15	11	4200	-40	100	PDIP -6

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

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