

Features

- · Meet ISO11898 Standard
- Support CAN FD and data rates up to 5 Mbps
- Typical Loop Delay: 110 ns
- 5 V power supply, 3.0 V ~ 5.5 V IO interface
- Receiver Common Mode Input Voltage: ±30 V
- Bus Fault Protection: ±42 V
- Up to 110 Nodes in CAN network
- Junction Temperatures from -40°C to 150°C
- Latch-Up performance exceeds 500 mA
- BUS pin ESD Protection:
 - ±15 kV IEC-Contact ESD
 - ±15 kV Human-Body Model
 - ±1.5 kV Charged-Device Model

Applications

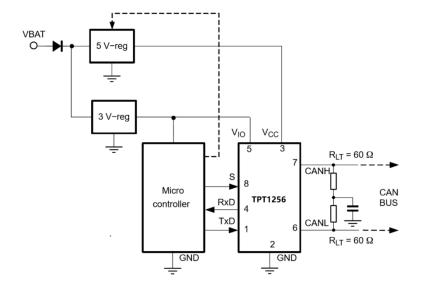
- All devices support highly loaded CAN networks
- Field Industrial Automation, Sensors and Drive Systems
- · Building, Security Control Systems
- Energy Storage systems
- Telecom Base Station Status and Control

Description

The TPT125x device is a CAN transceiver which meets the ISO11898 High-speed CAN (Controller Area Network) physical layer standard. The device is designed to use in CAN FD networks up to 5 Mbps, and to enhance timing margin and higher data rates in long and high-loading networks. As design, the device features cross-wire, overvoltage and loss of ground protection from -42 V to +42 overtemperature shutdown, a -30 V to +30 V common-mode range. TPT1256 has a secondary power supply input for I/O level shifting the input pin thresholds and RXD output level, and the device comes with silent mode which is also commonly referred as listen-only mode, and it includes many protection features to enhance device and network robustness.

TPT125x is available in SOP-8 and DFN3X3-8L package, and characterized from -40° C to $+125^{\circ}$ C.

Typical Application Circuit





Product Family Table

Order Number	VCC (V)	VIO (V)	BUS Protection (V)	Package
TPT1255-SO1R	5.0	NC	±42	SOP-8
TPT1256-SO1R	5.0	3.3, or 5	±42	SOP-8
TPT1255-DF6R	5.0	NC	±42	DFN3X3-8L
TPT1256-DF6R	5.0	3.3, or 5	±42	DFN3X3-8L



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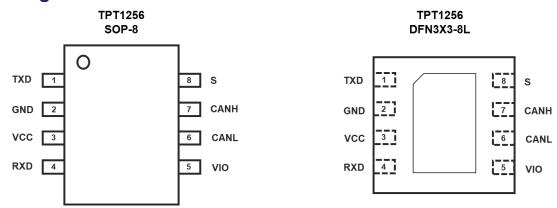


Revision History

Date	Revision	Notes
2021-06-18	Rev.Pre.0	Initial Version
2021-10-15	Rev.Pre.1	Update electrical parameter
2021-11-12	Rev.Pre.2	Update VIH, VIL and VOH, VOL of TPT1255
2021-11-16	Rev.Pre.3	Update application circuit of TPT1255 and TPT1256
2021-12-23	Rev.Pre.4	Update ESD data
2022-04-06	Rev.Pre.5	Update the Test conditions of I _{CC} , V _{O(DOM)} , I _{OS(SS_DOM)}
2022-04-26	Rev.A.0	Release version
2022-05-26	Rev.A.1	Update the notes of Order Information
2022-06-17	Rev.A.2	Update the DFN package POD, tape and reel Information of the DFN



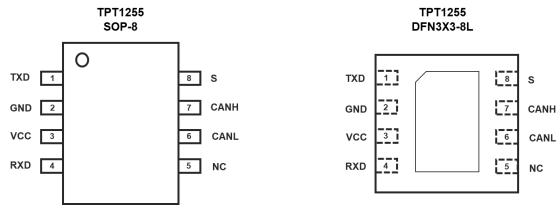
Pin Configuration and Functions – TPT1256



TPT1256 Pin Functions

Р	in	1/0	Description.
No.	Name	I/O	Description
1	TXD	I	CAN transmit data input (LOW for dominant and HIGH for recessive bus states)
2	GND	GND	Ground
3	VCC	POWER	Transceiver 5V supply voltage
4	RXD	0	CAN receive data output (LOW for dominant and HIGH for recessive bus states)
5	VIO	POWER	Transceiver I/O level shifting supply voltage (Devices with "V" suffix only)
6	CANL	BUS I/O	Low level CAN bus input/output line
7	CANH	BUS I/O	High level CAN bus Input/output line
8	S	I	Silent Mode control input (active high)

Pin Configuration and Functions – TPT1255





TPT1255 Pin Functions

Р	in	1/0	De autotion
No.	Name	I/O	Description
1	TXD	I	CAN transmit data input (LOW for dominant and HIGH for recessive bus states)
2	GND	GND	Ground
3	VCC	POWER	Transceiver 5V supply voltage
4	RXD	0	CAN receive data output (LOW for dominant and HIGH for recessive bus states)
5	NC	-	Not Connection
6	CANL	BUS I/O	Low level CAN bus input/output line
7	CANH	BUS I/O	High level CAN bus input/output line
8	S	I	Silent Mode control input (active high)

Specifications

Absolute Maximum Ratings

	Parameter	Min	Max	Unit
Vcc	5-V Bus Supply Voltage Range	-0.3	7	V
Vio	I/O Level-Shifting Voltage Range	-0.3	7	V
V _{BUS}	CAN Bus I/O voltage range (CANH, CANL)	-42	42	V
V(Logic_Input)	Logic input terminal voltage range (TXD, S)	-0.3	7	V
V(Logic_Output)	Logic output terminal voltage range (RXD)	-0.3	7	V
IO(RXD)	RXD (Receiver) output current	-8	8	mA
TJ	Maximum junction temperature	-40	150	°C
T _{stg}	Storage temperature range	-65	150	°C

Note: Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.

⁽¹⁾ This data was taken with the JEDEC low effective thermal conductivity test board.

⁽²⁾ This data was taken with the JEDEC standard multilayer test boards.



ESD, Electrostatic Discharge Protection

Symbol	Parameter	Condition	Minimum Level	Unit
IFC	IEC Contact Discharge	IEC-61000-4-2, Bus Pin	±15	kV
IEC	IEC Air-Gap Discharge	IEC-61000-4-2, Bus Pin	±15	kV
		ANSI/ESDA/JEDEC JS-001, Bus Pin	±15	kV
НВМ	Human Body Model ESD	ANSI/ESDA/JEDEC JS-001, All Pin Except Bus Pin	±6	kV
CDM	Charged Device Model ESD	ANSI/ESDA/JEDEC JS-002, All Pin	±1.5	kV
LU	Latch Up	LU, per JESD78, All Pin	±500	mA

⁽¹⁾ JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

Recommended Operating Conditions

Symbol	Description	Min	Max	Unit
V _{IO}	Input/output voltage TXD, RXD,S of TPT1256	3.0	5.5	V
Vcc	Power supply	4.5	5.5	V
I _{OH(RXD)}	RXD terminal HIGH level output current	-2		mA
I _{OL(RXD)}	RXD terminal LOW level output current		2	mA
T _A	Operating ambient temperature	-40	125	°C

Thermal Information

Package Type	θ _{JA}	θυς	Unit
8-Pin SOIC	148	48	°C/W
8-Pin DFN3x3	52	23	°C/W

Power Consumption

Parameter		Test Condition	Value	Unit
Po	Average power dissipation	VCC = 5V, VIO = 3.3V, Ta = 25°C, RL = 60Ω , S at 0 V, Input to TXD at 250 kHz, CL_RXD = 15 pF. Typical CAN operating conditions at 500 kbps with 25% transmission rate	63	mW
T D	(Dominant mode)	VCC = 5.5V, VIO = 3.6V, Ta = 125°C, RL = 50 Ω , S at 0 V, Input to TXD at 0.5MHz, CL_RXD = 15 pF. Typical high load CAN operating conditions at 1 Mbps with 50% transmission rate and loaded network.	154	mW

⁽²⁾ JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.



Electrical Characteristics

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
		TXD = 0 V, R_L = 60 Ω , C_L = open, R_{CM} = open, S = 0 V		50	70	mA
	Normal mode (dominant)	TXD = 0 V, R_L = 50 Ω , C_L = open, R_{CM} = open, S = 0 V		52	80	mA
Icc	Normal mode (dominant – bus fault)	TXD = 0 V, S = 0 V, CANH = CANL = -3 /+18V, R_L = open, C_L = open, R_{CM} = open		73	150	mA
	Normal mode (recessive)	$TXD = V_{IO}$, $R_L = 50 \Omega$, $C_L = open$, $R_{CM} = open$, $S = 0 V$		1.2	2.5	mA
	Silent mode	$TXD = V_{IO}$, $R_L = 50 \Omega$, $C_L = open$, $R_{CM} = open$, $S = VCC$		1.2	2.5	mA
lio	Normal and Silent modes	RXD Floating, TXD = S = 0 or V _{IO}		73	200	μA
UV _{vcc}	Rising undervoltage detection on V_{CC} for protected mode			4.0	4.4	V
OVVCC	Falling undervoltage detection on Vcc for protected mode		3.6	3.9	4.2	V
$V_{\text{HYS}(\text{UVVCC})}$	Hysteresis voltage on U _{VVCC} ⁽¹⁾			200		mV
UV _{VIO}	Undervoltage detection on V _{IO} for protected mode	V _{IH} and V _{IL}	1.3		2.75	٧
V _{HYS(UVVIO)}	Hysteresis voltage on Uvvio for protected mode (1)			150		mV
Pin-S (mode	e select input)				•	
VIH	High-level input voltage	TPT1256	0.7 x V _{IO}			
		TPT1255	2			.,
VıL	Low-level input voltage	TPT1256			0.3 x V _{IO}	V
		TPT1255			8.0	
Іін	High-level input leakage current	S = V _{CC} or V _{IO} = 5.5 V			30	
I _{IL}	Low-level input leakage current	S = 0 V, V _{CC} = V _{IO} = 5.5 V	-1	0	1	μA
$I_{lkg(OFF)}$	Unpowered leakage current	S = 5.5 V, V _{CC} = V _{IO} = 0 V	-1	0	1	
Pin-TXD (CA	AN transmit data input)					
ViH	High-level input voltage	TPT1256	0.7 x V _{IO}			
		TPT1255	2			\/
VIL	Low-level input voltage	TPT1256			0.3 x V _{IO}	V
		TPT1255			0.8	
Іін	High-level input leakage current	S = V _{CC} or V _{IO} = 5.5 V	-2.5	0	1	^
lıL	Low-level input leakage current	S = 0 V, V _{CC} = V _{IO} = 5.5 V	-100	-63	-7	μA



I _{lkg(OFF)}	Unpowered leakage current	TXD = 5.5 V, V _{CC} = V _{IO} = 0 V	-1	0	1	
Cı	Input capacitance (1)			5		pF

^{(1).} Test data is based on bench test and design simulation

Electrical Characteristics (Continued)

Symbol	Parameter		Test Conditions	Min	Тур	Max	Unit
Pin- RXD (CA	AN Receive data output)						
V _{OH}	High-level output voltage		TPT1256, I _O = −2 mA	0.8 × V _{IO}			
			TPT1255, I₀ = −2 mA	4	4.6		V
V_{OL}	Low-level output voltage		TPT1256, I _O = +2 mA			0.2 x V _{IO}	V
			TPT1255, I _O = +2 mA		0.2	0.4	
I _{lkg (OFF)}	Unpowered leakage current		RXD = 5.5 V , $V_{CC} = 0 \text{ V}$, $V_{IO} = 0 \text{ V}$	-1	0	1	μΑ
Driver electri	ical characteristics						
	Bus output voltage	CANH	TXD = 0 V, S = 0 V, 45 Ω ≤ R_L ≤ 65 Ω,	2.75		4.5	V
V _{O(DOM)}	(dominant)	CANL	C _L = open, R _{CM} = open	0.5		2.25	V
V _{O(REC)}	Bus output voltage (recessive)	CANH CANL	TXD = V_{CC} , V_{IO} = V_{CC} , $S = V_{CC}$ or $0 \ V^{(2)}$, R_L = open (no load), R_{CM} = open	2	0.5 x V _{CC}	3	V
	Differential output voltage (dominant)	CANH CANL	TXD = 0 V, S = 0 V, 45 $\Omega \le R_L < 50 \Omega$, C _L = open, R _{CM} = open	1.4		3	V
V _{OD(DOM)}			TXD = 0 V, S = 0 V, 50 $\Omega \le R_L \le 65 \Omega$, C _L = open, R _{CM} = open	1.5		3	V
			TXD = 0 V, S =0 V, R _L = 2240 Ω , C _L = open, RCM = open, V _{CC} = 4.5 V~5.25 V	1.5		5	V
V		.,	TXD = V_{CC} , S = 0 V, R_L = 60 Ω , C_L = open, R_{CM} = open	-120		12	mV
Vod(rec)	Vod(rec)		TXD = V_{CC} , S = 0 V, R_L = open (no load), C_L = open, R_{CM} = open	-50		50	mV
Vsүм	Transient symmetry (dominant or recessive), (V _{O(CANH)} + V _{O(CANL)}) /		S at 0 V, R _{term} = 60 Ω , C _{split} = 4.7 nF, C _L = open, R _{CM} = open, T _{XD} = 250 kHz, 1 MHz		1.0		V/V
Vsym_dc	or recessive). (Vcc - Vo(canh) -		S = 0 V, R_L = 60 Ω , C_L = open, R_{CM} = open	-0.4		0.4	V
los(ss dom)	Short-circuit steady-state	output	S at 0 V, $V_{CANH} = -5$ V to 40 V, $CANL =$ open, $TXD = 0$ V	-100			mA
.55(55_DOM)	current, dominant		S at 0 V, $V_{CANL} = -5$ V to 40 V, CANH = open, TXD = 0 V			100	111/



los(ss rec)	Short-circuit steady-state output	-27 V ≤ V _{BUS} ≤ 32 V, Where V _{BUS} =	-5	5	mΛ
103(33_1120)	current, recessive	CANH = CANL, TXD = Vcc	3]	mA

^{(1).} Test data based on bench test and design simulation, Vsym = $0.9 \sim 1.1 \text{ V/V}$ at 250 kbps

Electrical Characteristics (Continued)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Receiver	electrical characteristics			,		
Vсм	Common mode range, normal mode	S = 0 or V _{CC} or V _{IO}	-30		+30	V
V _{IT+}	Positive-going input threshold voltage, all modes	ut threshold voltage, all modes $S = 0$ or V_{CC} or V_{IO} ,			900	>/
V _{IT} _	Negative-going input threshold voltage, all modes	-20 V ≤ V _{CM} ≤ +20 V	500			mV
V _{IT+}	Positive-going input threshold voltage, all modes	S = 0 or V _{CC} or V _{IO} ,			1000	.,
V _{IT} -	Negative-going input threshold voltage, all modes	-30 V ≤ V _{CM} ≤ +30 V	400			mV
V _H YS	Hysteresis voltage (V _{IT+} – V _{IT-}) ⁽¹⁾	S = 0 or V _{CC} or V _{IO}		120		mV
Ilkg(IOFF)	Power-off (unpowered) bus input leakage current	$CANH = CANL = 5 V,$ $V_{CC} = V_{IO} = 0 V$			3	μА
Cı	Input capacitance to ground (CANH or CANL) (1)			25		pF
C _{ID}	Differential input capacitance (1)			2		pF
R _{ID}	Differential input resistance	$TXD = V_{CC} = V_{IO} = 5 V,$	30		80	kΩ
R _{IN}	Input resistance (CANH or CANL)	S = 0 V, -30 V ≤ V _{CM} ≤ +30 V	15		40	kΩ
R _{IN(M)}	Input resistance matching: [1 - R _{IN(CANH)} / R _{IN(CANL)}] × 100%	V _{CANH} = V _{CANL} = 5 V	-1%		+1%	

^{(1).} Test data is based on bench test and design simulation



AC Timing Requirements

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
DEVICE SW	/ITCHING CHARACTERISTICS					
tPROP(LOOP1)	Total loop delay, driver input (TXD) to receiver output (RXD), recessive to dominant	S = 0 V, R _L = 60 Ω,		100	160	
tPROP(LOOP2)	Total loop delay, driver input (TXD) to receiver output (RXD), dominant to recessive	$C_L = 100 \text{ pF}, C_{L(RXD)} = 15 \text{ pF}$		110	175	ns
t _{MODE}	Mode change time, from Normal to Silent or from Silent to Normal			0.15	10	μs
DRIVER SW	/ITCHING CHARACTERISTICS				1	l
t _{pHR}	Propagation delay time, high TXD to driver recessive (dominant to recessive) (1)			70		
t _{pLD}	Propagation delay time, low TXD to driver dominant (recessive to dominant) (1)	cessive to dominant) (1) $S = 0 \text{ V, } R_L = 60 \Omega,$		40		ns
t _{sk(p)}	Pulse skew (tphr - tpld) (1)	$C_L = 100 \text{ pF}, R_{CM} = \text{open}$		20		
t _R	Differential output signal rise time (1)			27		
t _F	Differential output signal fall time (1)			35		
t _{TXD_DTO}	Dominant timeout	$S = 0 \text{ V}, R_L = 60 \Omega,$ $C_L = \text{open}$	1.2		3.8	ms
RECEIVER	SWITCHING CHARACTERISTICS			•		
t _{pRH}	Propagation delay time, bus recessive input to high output (Dominant to Recessive) (1)			76		
t _{pDL}	Propagation delay time, bus dominant input to low output (Recessive to Dominant) (1)	S = 0 V, C _{L(RXD)} = 15 pF		59		ns
t _R	RXD Output signal rise time ⁽¹⁾			12		
t _F	RXD Output signal fall time (1)			7		
FD Timing F	Parameters					
	Bit time on CAN bus output pins with t _{BIT(TXD)} = 500 ns, all devices		435		530	
tbit(bus)	Bit time on CAN bus output pins with tbit(TXD) = 200 ns, G device variants only		155		210	
	Bit time on RXD output pins with t _{BIT(TXD)} = 500 ns, all devices	$S = 0 \text{ V}, R_L = 60 \Omega,$ $C_L = 100 \text{ pF},$	400		550	
t _{BIT(RXD)}	Bit time on RXD output pins with t _{BIT(TXD)} = 200 ns, G device variants only	$C_{L(RXD)} = 15 \text{ pF},$ $\Delta t_{REC} = t_{BIT(RXD)} - t_{BIT(BUS)}$	120		220	ns
At	Receiver timing symmetry with t _{BIT(TXD)} = 500 ns, all devices		-65		40	
∆t _{REC}	Receiver timing symmetry with t _{BIT(TXD)} = 200 ns, G device variants only		-45		15	

^{(1).} Test data is based on bench test and design simulation



Detailed Description

Overview

The TPT125x device is a CAN transceiver which meets the ISO11898 High-speed CAN (Controller Area Network) physical layer standard. The device is designed to use in CAN FD networks up to 5 Mbps, and enhanced timing margin and higher data rates in long and high-loading networks. As design, the device features cross-wire, overvoltage and loss of ground protection from -42 V to +42 V, overtemperature shutdown, a -30V to +30V common-mode range. TPT1256 have a secondary power supply input for I/O level shifting the input pin thresholds and RXD output level, and the pin5 of TPT1255 is NC. The devices come with silent mode which is also commonly referred to as listen-only mode, and it includes many protection features to enhance device and network robustness.

Functional Block Diagram

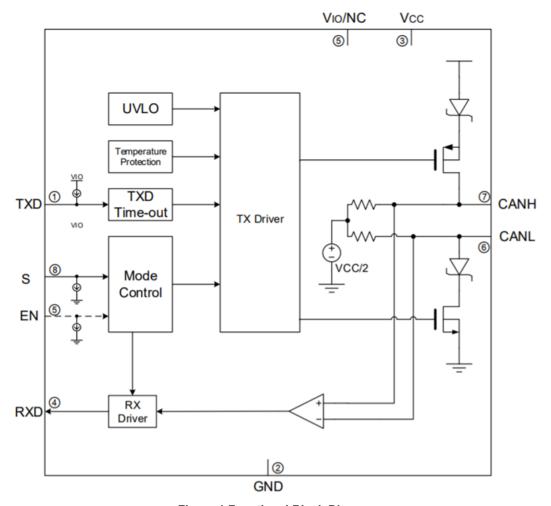


Figure 1 Functional Block Diagram

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Feature Description

Under-voltage Lockout (UVLO)

The TPT1256 uses an under-voltage lockout circuit to keep the device in shutdown mode until the supply voltage is higher than UVLO threshold.

Over Temperature Protection (OTP)

The TPT125x integrates Foldback circuit and over-temperature protection to prevent device from over-heated and damage. When the junction temperature is higher than T_{OTP}, 150°C, a current thermal Foldback circuit starts to work and decrease the device output charge current gradually with T_J rise. If T_J still rises and reaches 180°C, the device will shut down charging loop until T_J drops below 100°C.

Driver Function Table

Device	Inp	uts	Out	Driven BUS State	
Device	s	TXD	CANH	CANL	Driven boo State
		L	Н	L	Dominant
All Devices	L or open	H or Open	Z	Z	Recessive
	Н	Х	Z	Z	Recessive

Receiver Function Table

Device Mode	CAN Differential Inputs VID = VCANH - VCANL	BUS State	RXD Terminal
	$V_{ID} \ge V_{IT+(MAX)}$	Dominant	L
N 1 01 1	$V_{IT-(MIN)} \le V_{ID} \le V_{IT+(MAX)}$	Indeterminate	Indeterminate
Normal or Silent	$V_{ID} \leq V_{IT-(MIN)}$	Recessive	Н
	Open (V _{ID} ≈ 0 V)	Open	I

Normal mode

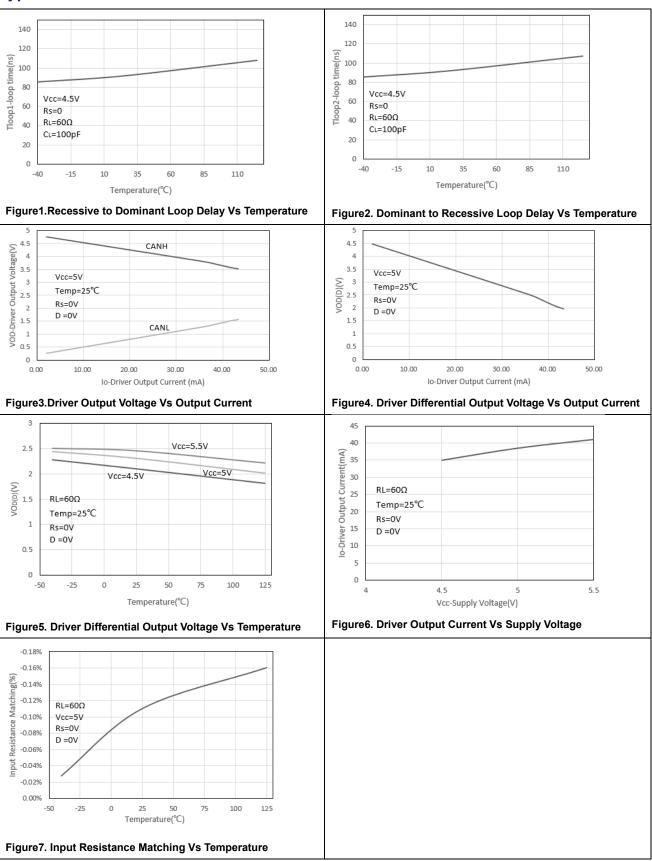
A LOW level on pin S selects Normal mode. In this mode, the transceiver will transmit and receive data via the bus lines CANH and CANL. The differential receiver converts the analog data on the bus lines into digital data which is output to pin RXD. The slopes of the output signals on the bus lines are controlled internally and are optimized in a way that guarantees the lowest possible Electro Magnetic Emission (EME).

Silent mode

A HIGH level on pin S selects Silent mode. In Silent mode the transmitter is disabled, releasing the bus pins to recessive state. All other IC functions, including the receiver, continue to operate as in Normal mode, just like listen-only mode. Silent mode can be used to prevent a faulty CAN controller from disrupting all network communications.



Typical Characteristics



Application and Implementation

NOTE

Information in the following applications sections is not part of the 3PEAK's component specification and 3PEAK does not warrant its accuracy or completeness. 3PEAK's customers are responsible for determining suitability of components for their purposes. Customers should validate and test their design implementation to confirm system functionality.

Application Information

The TPT1256 device is a CAN transceiver to support CAN FD function up to 5 Mbps, with BUS protection voltage from -42 V to +42 V, overtemperature shutdown, a -30 V to +30 V common-mode range. The VIO of TPT1256 can support the voltage level of TXD and RXD from 3.3 V to 5.0 V, and pin5 of TPT1255 is NC which means it can only support 5V I/O voltage.

The following sections show a typical application of the TPT1256 and TPT1255.

Typical Application

Figure 2 shows the typical application schematic of the TPT1256.

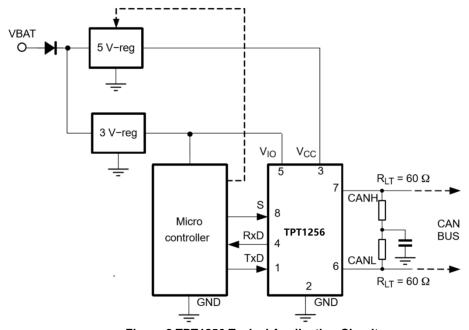


Figure 2 TPT1256 Typical Application Circuit

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Figure 2 shows the typical application schematic of the TPT1255.

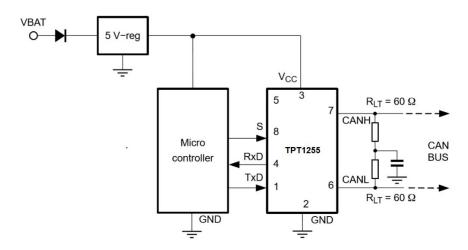


Figure 3 TPT1255 Typical Application Circuit

Power Dissipation and Thermal Consideration

During normal operation, junction temperature limitation is 150°C. When junction temperature exceeds 150°C, the charge current decreases with the temperature value. Using Equation 2 and Equation 3 to calculate the power dissipation and estimate the junction temperature.

The maximum power dissipation can be calculated using Equation 2.

$$P_{D} = (V_{IN} - V_{BAT}) \times I_{BAT} = \frac{T_{J,max} - T_{A}}{\theta_{JA}}$$
 (2)

Where,

T_{J,max} is the junction temperature limitation, 150°C,

 T_A is the ambient temperature, θ_{JA} is the junction-to-ambient thermal resistance (See <u>Thermal Information</u>). Solve <u>Equation 2</u>, the constant charge current value is calculated in <u>Equation 3</u>.

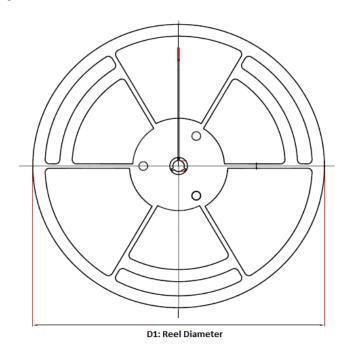
$$I_{BAT} = \frac{150^{\circ}C - T_{A}}{(V_{IN} - V_{BAT}) \times \theta_{JA}}$$
 (3)

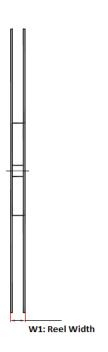
Power Consumption

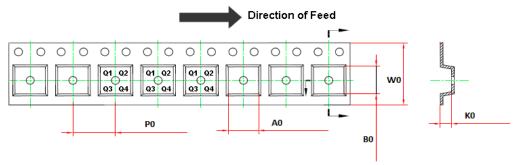
Parameter		Test Condition	Value	Unit
Average power dissipation	VCC = 5V, VIO = 3.3V, Ta = 25° C, RL = 60Ω , S at 0 V, Input to TXD at 250 kHz, CL_RXD = 15 pF. Typical CAN operating conditions at 500 kbps with 25% transmission rate	63	mW	
P _D	(Dominant mode)	VCC = 5.5V, VIO = 3.6V, Ta = 125°C, RL = 50 Ω , S at 0 V, Input to TXD at 0.5MHz, CL_RXD = 15 pF. Typical high load CAN operating conditions at 1 Mbps with 50% transmission rate and loaded network.	154	mW



Tape and Reel Information





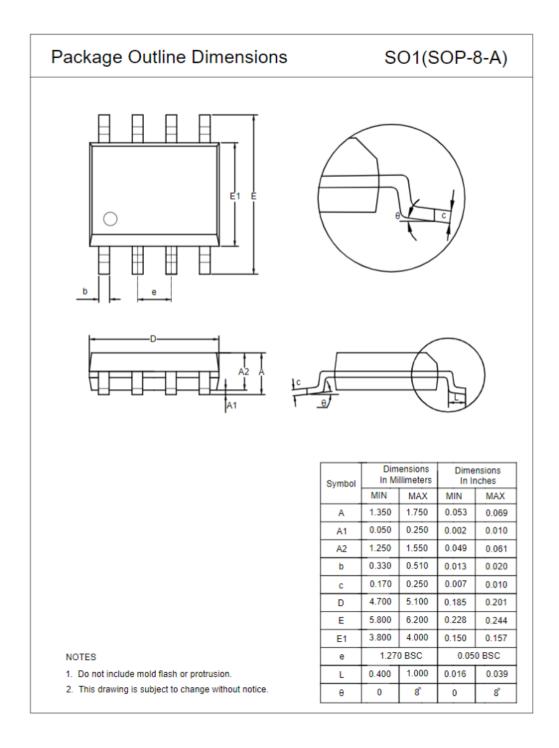


Order Number	Package	D1 (mm)	W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P0 (mm)	W0 (mm)	Pin1 Quadrant
TPT1255-SO1R	8-Pin SOP	330.0	17.6	6.4	5.4	2.1	8.0	12.0	Q1
TPT1256-SO1R	8-Pin SOP	330.0	17.6	6.4	5.4	2.1	8.0	12.0	Q1
TPT1255-DF6R	DFN3X3-8L	330.0	17.6	3.3	3.3	1.1	8.0	12.0	Q1
TPT1256-DF6R	DFN3X3-8L	330.0	17.6	3.3	3.3	1.1	8.0	12.0	Q1



Package Outline Dimensions

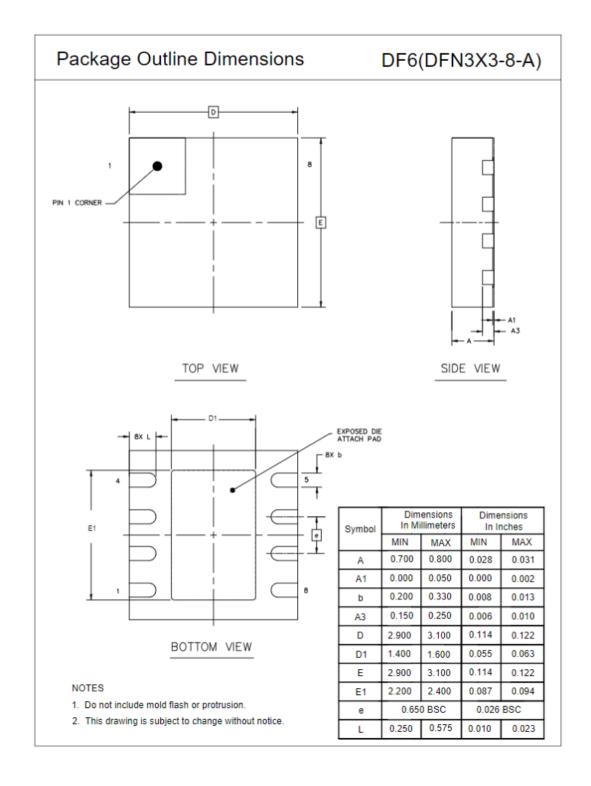
SO1R (SOP-8)





Package Outline Dimensions (Continued)

DF6R (DFN3x3-8L)





Order Information

Order Number	Operating Temperature Range	Package	Marking Information	MSL	Transport Media, Quantity	Eco Plan
TPT1255-SO1R	-40 to 125°C	8-Pin SOP	T1255	MSL3	Tape and Reel, 4000	Green
TPT1256-SO1R	-40 to 125°C	8-Pin SOP	T1256	MSL3	Tape and Reel, 4000	Green
TPT1255-DF6R (1)	-40 to 125°C	8-Pin DFN	1255	MSL3	Tape and Reel, 4000	Green
TPT1256-DF6R (1)	-40 to 125°C	8-Pin DFN	1256	MSL3	Tape and Reel, 4000	Green

⁽¹⁾ Future product, contact 3PEAK factory for more information and sample

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⁽²⁾ Green: 3PEAK defines "Green" to mean RoHS compatible and free of halogen substances.