ENGR 1202 - COMPE - 9/26/13 Communication Patus for 10 3.0V 3.0V A 001 #8 3.0V The following Apoges are from last year's class & are helpful

ENGR 1202 2/21/2013 Labl * You can work ma team of 2 or 3 * Provide a bread board (1 per team) * Provide your own wire + We provide + LEDS * Resistors * "Special", Component Transistor EPIC 2148

ENGR 1202 9 2/21/2013 IKQ IKQ IKQ Cigarit V-112 V=1P NB 3v=1 2ks 3v= I 1K 1.5w/=I 3 = I 1000 3mA = I 1 K+1K P1+P2 IK+IK RI+RZ 500 V= 1R V= 7 500 6WA 7

ENGR 1202 2/21/2013

QTI Sensor

Light

Black

White

Skill - look up a data sheet

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P2N2222A

Amplifier Transistors

NPN Silicon

Features

These are Pb-Free Devices*

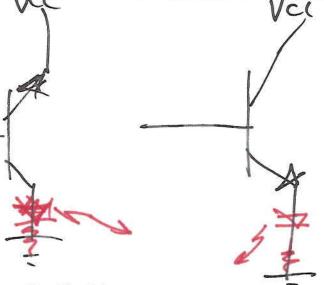
MAXIMUM RATINGS (TA = 25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Collector - Emitter Voltage	V _{CEO}	40	Vdc
Collector - Base Voltage	V _{CBO}	75	Vdc
Emitter - Base Voltage	V _{EBO}	6.0	Vdc
Collector Current - Continuous	Ic	600	mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	625 5.0	mW mW/°C
Total Device Dissipation @ T _C = 25°C Derate above 25°C	P _D	1.5 12	W mW/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-55 to +150	°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max 200	Unit	
Thermal Resistance, Junction to Ambient	Reja		°C/W	
Thermal Resistance, Junction to Case	R _{0JC}	83.3	°C/W	

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the commended Operating Conditions may affect device reliability.

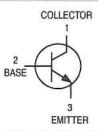


*For additional information on our Pb-Free strategy and sofdering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



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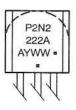




FRAIGHT LEAD BULK PACK

TAPE & REEL AMMO PACK

MARKING DIAGRAM



A = Assembly Location

= Year

WW = Work Week

= Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]	
P2N2222AG	TO-92 (Pb-Free)	5000 Units/Bulk	
P2N2222ARL1G	TO-92 (Pb-Free)	2000/Tape & Amm	

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.