

## Pin Descriptions

Pin Number		Pin Name	Function
SOIC-8/MSOP-8	SOT-23-5		
1	2	GND	Ground
2, 3	4	VIN	Supply Input Pin
4	3	EN/ $\overline{\text{EN}}$	Chip Enable Control Input, Active Low or High
5	1	$\overline{\text{FLAG}}$	Fault Flag Pin, Output With Open Drain, Requires a Pull-Up Resistor in Application, Active Low To Indicate OCP or OTP
6, 7, 8	5	VOUT	Switch Output Voltage

## Absolute Maximum Ratings (Note 2)

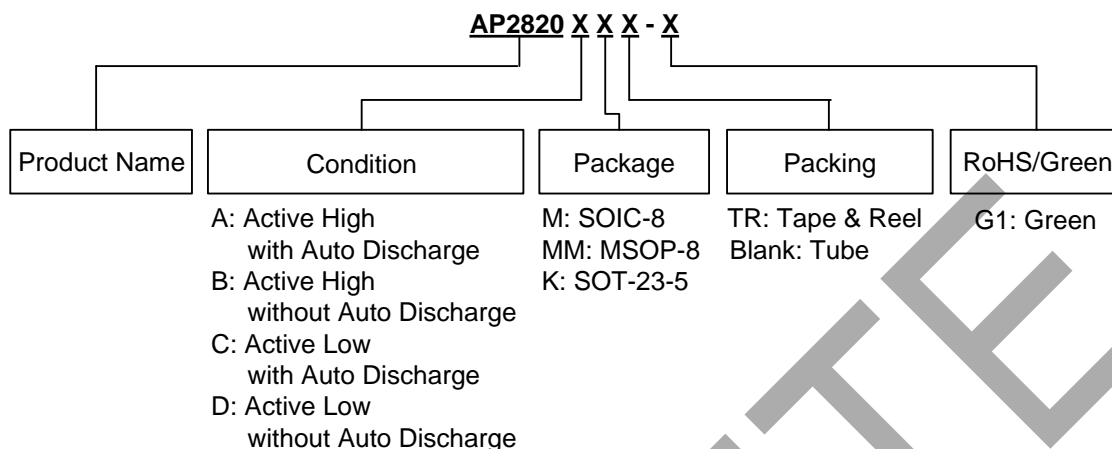
Symbol	Parameter	Rating		Unit
$V_{\text{IN}}$	Power Supply Voltage	6.5		V
$T_{\text{J}}$	Operating Junction Temperature Range	+150		°C
$T_{\text{STG}}$	Storage Temperature Range	-65 to +150		°C
$T_{\text{LEAD}}$	Lead Temperature (Soldering, 10s)	+260		°C
$\Theta_{\text{JA}}$	Thermal Resistance (Junction to Ambient)	SOIC-8	TBD	°C/W
		MSOP-8	TBD	
		SOT-23-5	TBD	
—	ESD (Machine Model)	200		V
—	ESD (Human Body Model)	2000		V

Note: 2. Stresses greater than those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to *Absolute Maximum Ratings* for extended periods can affect device reliability.

## Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
$V_{\text{IN}}$	Supply Voltage	2.7	6.0	V
$T_{\text{A}}$	Ambient Operation Temperature Range	-40	+85	°C

## Ordering Information

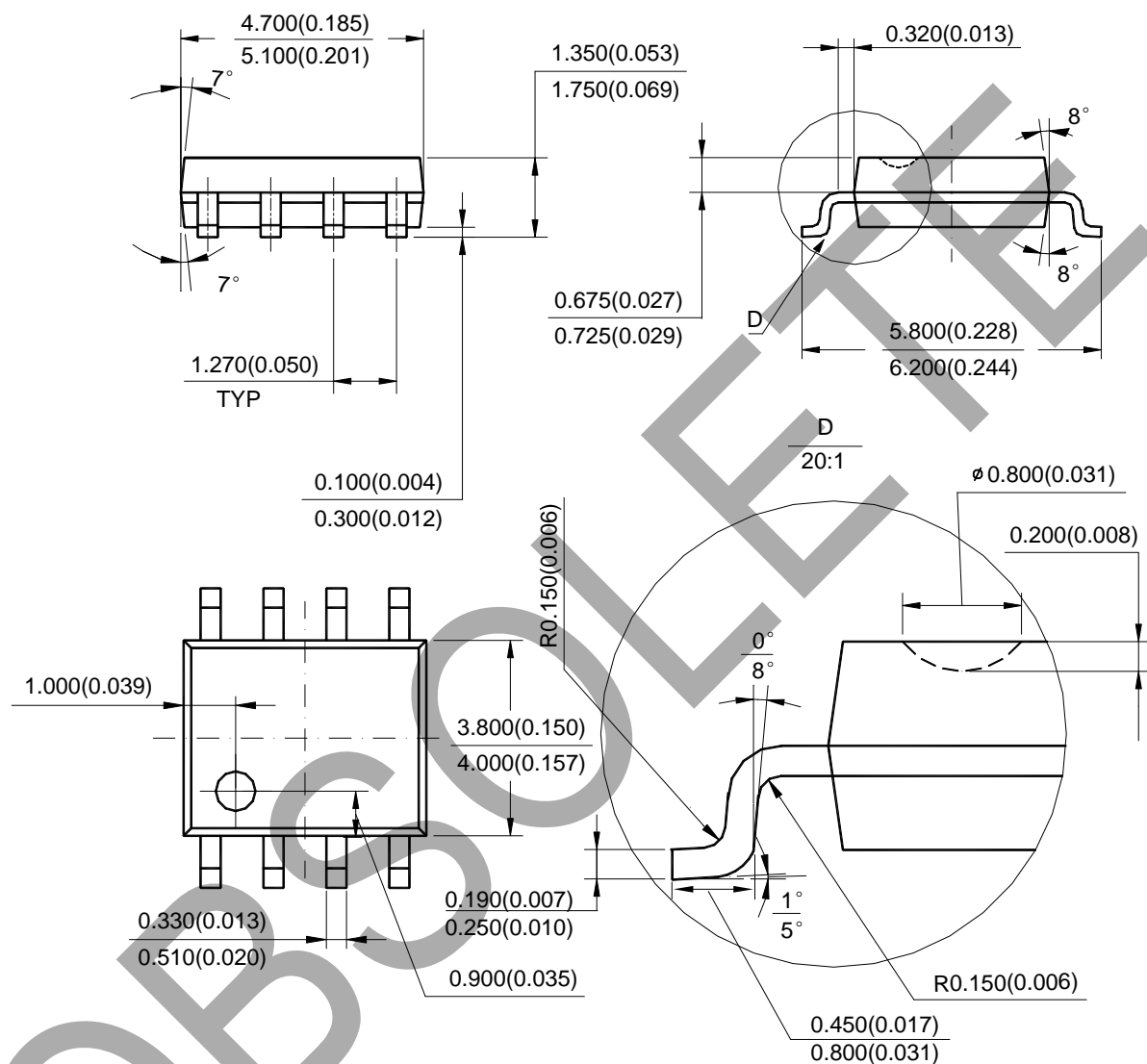


Product	Package	Condition	Temperature Range	Part Number	Marking ID	Packing
AP2820	SOIC-8	Active High With Auto Discharge	-40°C to +85°C	AP2820AM-G1 (EOL)	2820AM-G1	Tube
				AP2820AMTR-G1 (EOL)	2820AM-G1	Tape & Reel
	MSOP-8			AP2820AMM-G1 (EOL)	2820AMM-G1	Tube
				AP2820AMMTR-G1 (EOL)	2820AMM-G1	Tape & Reel
	SOT-23-5	Active High Without Auto Discharge	-40°C to +85°C	AP2820AKTR-G1 (EOL)	GCW	Tape & Reel
	SOIC-8			AP2820BM-G1 (EOL)	2820BM-G1	Tube
				AP2820BMTR-G1 (EOL)	2820BM-G1	Tape & Reel
	MSOP-8			AP2820BMM-G1 (EOL)	2820BMM-G1	Tube
				AP2820BMMTR-G1 (EOL)	2820BMM-G1	Tape & Reel
	SOT-23-5	Active Low With Auto Discharge	-40°C to +85°C	AP2820BKTR-G1 (EOL)	G6Z	Tape & Reel
	SOIC-8			AP2820CM-G1 (EOL)	2820CM-G1	Tube
				AP2820CMTR-G1 (EOL)	2820CM-G1	Tape & Reel
	MSOP-8			AP2820CMM-G1 (EOL)	2820CMM-G1	Tube
				AP2820CMMTR-G1 (EOL)	2820CMM-G1	Tape & Reel
	SOT-23-5	Active Low Without Auto Discharge	-40°C to +85°C	AP2820CKTR-G1 (EOL)	GCZ	Tape & Reel
	SOIC-8			AP2820DM-G1 (EOL)	2820DM-G1	Tube
				AP2820DMTR-G1 (EOL)	2820DM-G1	Tape & Reel
	MSOP-8			AP2820DMM-G1 (EOL)	2820DMM-G1	Tube
				AP2820DMMTR-G1 (EOL)	2820DMM-G1	Tape & Reel
	SOT-23-5			AP2820DKTR-G1 (EOL)	G7Z	Tape & Reel

Note: 3. End of life (EOL).

**Package Outline Dimensions** (All dimensions in mm (inch).)

(1) Package Type: SOIC-8



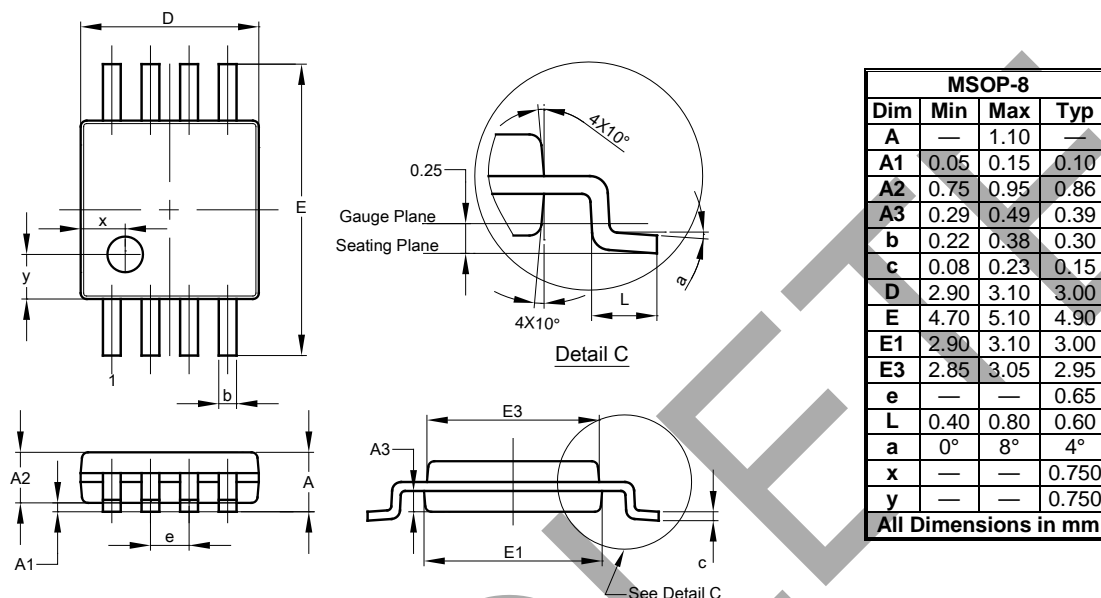
Note: Eject hole, oriented hole and mold mark is optional.

# Package Outline Dimensions (continued) (All dimensions in mm(inch).)

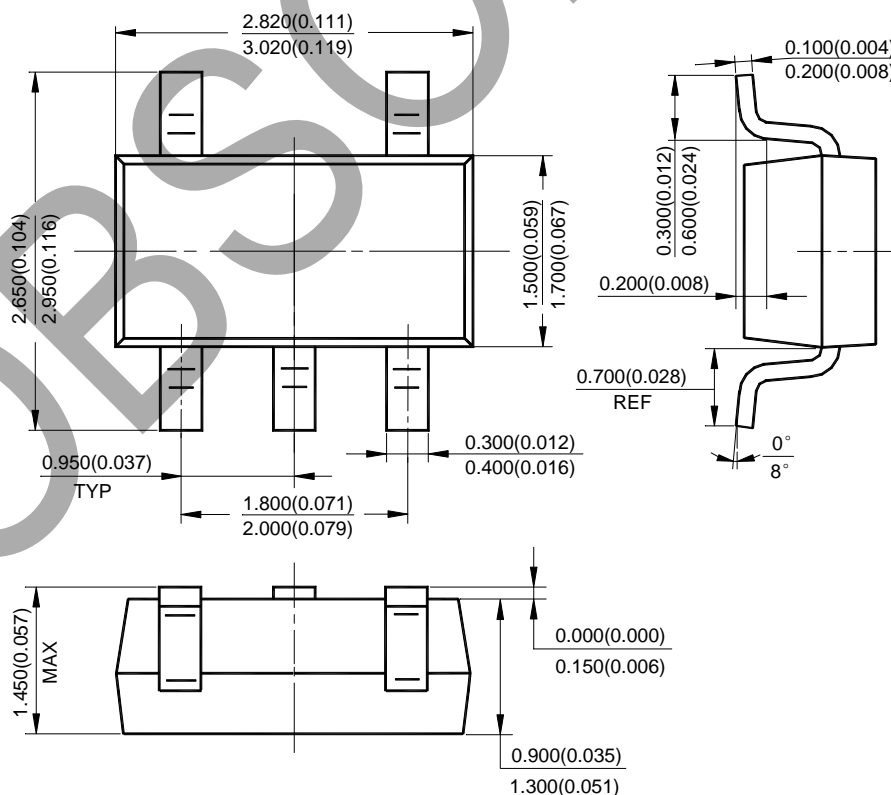
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

## (2) Package Type: MSOP-8

MSOP-8



## (3) Package Type: SOT-23-5

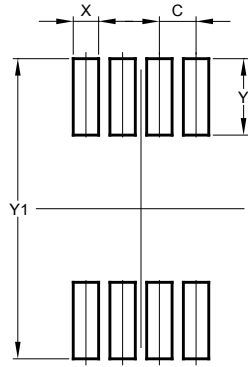


## Suggested Pad Layout (All dimensions in mm(inch).)

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

(1) Package Type: MSOP-8

MSOP-8



Dimensions	Value (in mm)
C	0.650
X	0.450
Y	1.350
Y1	5.300

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OBSOLETE

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