

AME8853

■ General Description

The AME8853 family of positive, CMOS linear regulators provide low dropout voltage(220mV@300mA), low quiescent current, and low noise CMOS LDO. These rugged devices have both Thermal Shutdown, and Current limit to prevent device failure under the "Worst" of operating conditions.

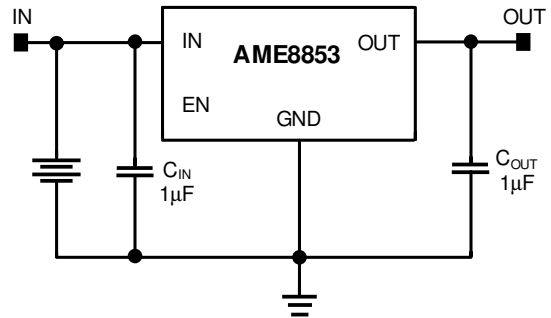
■ Features

- Low Dropout Voltage: 220mV@300mA
- Guaranteed Current: 300mA
- Quiescent Current: 60μA (typ.)
- Over-Temperature Shutdown
- Current Limiting protection
- PSRR: 60dB@10KHz
- Ultra-Low-Noise: 100μV_{RMS} at 1Hz to 100KHz
- Low Temperature Coefficient
- Input Voltage Range : 2.5V~5.5V
- Output Voltage Range: 0.8V~ 4.3V
- Green Products Meet RoHS Standards

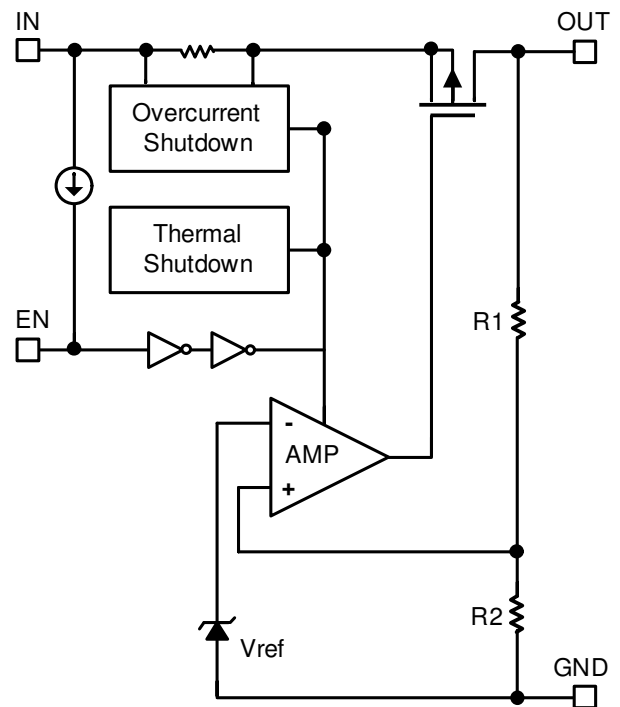
■ Applications

- Instrumentation
- Portable Electronics
- Wireless Devices
- Cordless Phones
- PC Peripherals
- Battery Powered Widgets

■ Typical Application



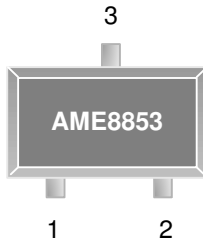
■ Functional Block Diagram



AME8853

■ Pin Configuration

SOT-23/TSOT-23A
Top View

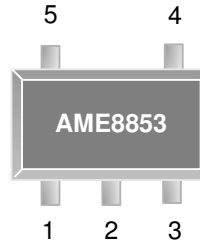


AME8853-AETxxx

1. GND
2. OUT
3. IN

* Die Attach:
Non-Conductive Epoxy

SOT-25/TSOT-25A
Top View

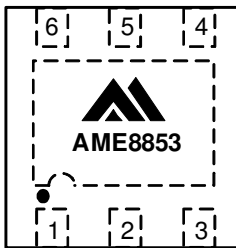


AME8853-AEVxxxx

1. IN
2. GND
3. EN
4. NC
5. OUT

* Die Attach:
Conductive Epoxy

DFN-6D
(2mmx2mmx0.75mm)
Top View

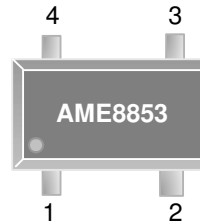


AME8853-AVYxxx

1. OUT
2. NC
3. GND
4. EN
5. NC
6. IN

* Die Attach:
Conductive Epoxy

SC-70-4 (SC-82)
Top View



AME8853-AIUxxx

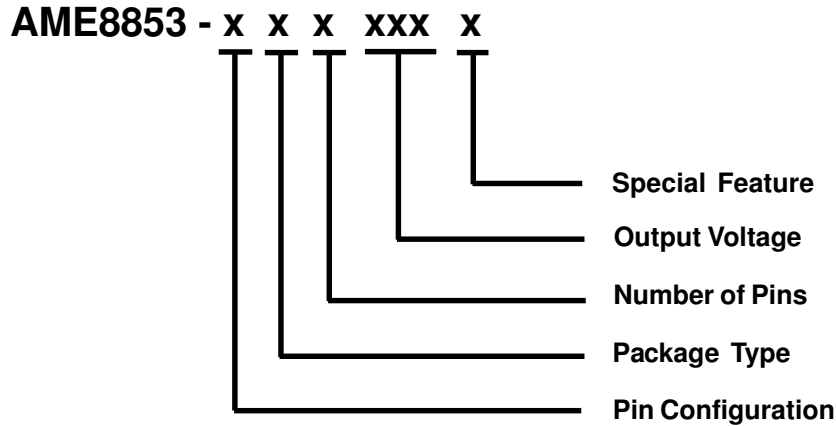
1. EN
2. GND
3. OUT
4. IN

* Die Attach:
Conductive Epoxy

AME8853
■ Pin Description

Pin Number		Pin Name	Pin Description
SOT-25 TSOT-25A	SOT-23 TSOT-23A		
1	3	IN	Input voltage pin; should be decoupled with 1 μ F or greater capacitor.
2	1	GND	Ground connection pin.
3	N/A	EN	Enable pin, Active "high". When pulled "low", the PMOS pass transistor turns off, current consuming less than 1 μ A. When EN pin float outside, it's weakly pulled high form internal MOS.
4	N/A	NC	No connection.
5	2	OUT	LDO voltage regulator output pin; should be decoupled with a 1.0 μ F or greater value low ESR ceramic capacitor.
N/A	N/A	NC	No connection.

Pin Number		Pin Name	Pin Description
SC-70-4 (SC-82)	DFN-6		
1	4	EN	Enable pin, Active "high". When pulled "low", the PMOS pass transistor turns off, current consuming less than 1 μ A. When EN pin float outside, it's weakly pulled high.
2	3	GND	Ground connection pin.
3	1	OUT	LDO voltage regulator output pin; should be decoupled with a 1.0 μ F or greater value low ESR ceramic capacitor.
4	6	IN	Input voltage pin; should be decoupled with 1 μ F or greater capacitor.
N/A	2、5	NC	No connection.

AME8853
■ Ordering Information


Pin Configuration	Package Type	Number of Pins	Output Voltage	Special Feature
A (SOT-25) (TSOT-25A) 1. IN 2. GND 3. EN 4. NC 5. OUT	E: SOT-2X I: SC-70 (SC-82) V: DFN-6	T: 3 U: 4 V: 5 Y: 6	080: 0.8V 090: 0.9V 100: 1.0V 110: 1.1V 120: 1.2V 130: 1.3V 140: 1.4V 150: 1.5V : : 180: 1.8V : : 250: 2.5V : : 280: 2.8V : : : : 420: 4.2V 430: 4.3V	N/A: SOT-2X K: 0.9mm max height (for TSOT-2XA Only)
A (SC-70-4/ SC-82) 1. EN 2. GND 3. OUT 4. IN			150: 1.5V : : 180: 1.8V : : 250: 2.5V : : 280: 2.8V : : : : 420: 4.2V 430: 4.3V	
A (SOT-23) (TSOT-23A) 1. GND 2. OUT 3. IN			250: 2.5V : : 280: 2.8V : : : : 420: 4.2V 430: 4.3V	
A (DFN-6D) 1. OUT 2. NC 3. GND 4. EN 5. NC 6. IN			: : : : 420: 4.2V 430: 4.3V	

AME8853
■ Absolute Maximum Ratings

Parameter		Maximum	Unit
Input Voltage		-0.3 to 6	V
EN Voltage		-0.3 to 6	V
Output Current		$P_D/(V_{IN}-V_{OUT})$	mA
Output Voltage		GND-0.3 to $V_{IN}+0.3$	V
ESD Classification	HBM	2	kV
	MM	200	V

■ Recommended Operating Conditions

Parameter	Symbol	Rating	Unit
Ambient Temperature Range	T_A	-40 to +85	°C
Junction Temperature Range	T_J	-40 to +125	
Storage Temperature Range	T_{STG}	-65 to +150	

■ Thermal Information

Parameter	Package	Die Attach	Symbol	Maximum	Unit
Thermal Resistance* (Junction to Case)	SC-70-4(SC-82)	Conductive Epoxy	θ_{JC}	224	°C / W
	SOT-25			81	
	TSOT-25A			81	
	DFN-6D			61	
	SOT-23 TSOT-23A	Non-Conductive Epoxy		140	
Thermal Resistance (Junction to Ambient)	SC-70-4(SC-82)	Conductive Epoxy	θ_{JA}	331	°C / W
	SOT-25			260	
	TSOT-25A			230	
	DFN-6D			130	
	SOT-23 TSOT-23A	Non-Conductive Epoxy		280	
Internal Power Dissipation	SC-70-4(SC-82)	Conductive Epoxy	P_D	300	mW
	SOT-25			400	
	TSOT-25A			455	
	DFN-6D			769	
	SOT-23 TSOT-23A	Non-Conductive Epoxy		400	
Maximum Junction Temperature				150	°C
Lead Temperature (Soldering, 10Sec.)**				260	°C

* Measure θ_{JC} on backside center of molding compound if IC has no tab.

** MIL-STD-202G210F

AME8853
■ Electrical Specifications

$V_{IN} = V_{OUT(NOM)} + 1V$, (for $V_{OUT} < 2V$, $V_{IN} = 2.5V$), $I_{OUT} = 1mA$, and $C_{OUT} = 1\mu F$, $C_{IN} = 1\mu F$ unless otherwise noted.
Typical values are at $T_A = 25^\circ C$.

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Input Voltage	V_{IN}		2.5		5.5	V
Output Accuracy	$V_{OUT,ACC}$	$I_{OUT} = 1mA$	-2.0		2.0	%
Output Voltage Range	V_{OUT}		0.8		4.3	V
Dropout Voltage (Note 1)	V_{DROP}	$I_{OUT} = 300mA$, $0.8V \leq V_{OUT(NOM)} \leq 2.0V$			Note2	mV
		$I_{OUT} = 300mA$, $2.0V < V_{OUT(NOM)} \leq 2.4V$			500	
		$I_{OUT} = 300mA$, $2.4V < V_{OUT(NOM)} \leq 2.8V$			400	
		$I_{OUT} = 300mA$, $2.8V < V_{OUT(NOM)}$		220	300	
Output Current	I_{OUT}		300			mA
Quiescent Current	I_Q	$I_{OUT} = 0mA$		60	90	μA
Line Regulation $\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times 100\%$ V_{OUT}	REG _{LINE}	$I_{OUT} = 1mA$, $0.8V \leq V_{OUT} \leq 1.2V$, $2.5V \leq V_{IN} \leq 3.5V$		0.125	0.25	%V
		$I_{OUT} = 1mA$, $1.2V < V_{OUT} \leq 2.0V$, $2.5V \leq V_{IN} \leq 3.5V$		0.1	0.2	
		$I_{OUT} = 1mA$, $2.0V < V_{OUT} \leq 4.2V$, $V_{IN(MIN)} \leq V_{IN} \leq V_{IN(MIN)} + 1V$		0.05	0.1	
		$I_{OUT} = 1mA$, $4.2V < V_{OUT} \leq 4.5V$, $V_{IN(MIN)} \leq V_{IN} \leq 5.5V$ (Note2)		0.05	0.1	
Load Regulation $\frac{\Delta V_{OUT}}{V_{OUT}} \times 100\%$ ΔI_{OUT}	REG _{LOAD}	$1mA \leq I_{OUT} \leq 300mA$ $0.8V \leq V_{OUT(NOM)} \leq 1.2V$		1.5	3.0	%A
		$1mA \leq I_{OUT} \leq 300mA$ $1.2V < V_{OUT(NOM)} \leq 2.0V$		1.25	2.5	
		$1mA \leq I_{OUT} \leq 300mA$ $2.0V < V_{OUT(NOM)}$		1.0	2	

AME8853
■ Electrical Specifications (Contd.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Units	
Power Supply Rejection Ration	PSRR	$C_{OUT}=1\mu F, V_{OUT}=0.8V$ $I_{OUT}=10mA$ $V_{IN}=2.8V$	F=100Hz		60		dB
			F=1KHz		60		
			F=10KHz		60		
Output Voltage Noise	eN	$I_{OUT}=10mA, V_{OUT}=0.8V,$ f=1Hz to 100KHz		100		μV_{RMS}	
Enable High (enabled)	$V_{EN,HI}$	$V_{IN(MIN)} \leq V_{IN} \leq 5.5V$	1.4		V_{IN}	V	
Enable Low (shutdown)	$V_{EN,LO}$	$V_{IN(MIN)} \leq V_{IN} \leq 5.5V$	0		0.4		
Enable Input Bias Current	$I_{EN,HI}$	$V_{EN}=V_{IN}$			1	μA	
	$I_{EN,LO}$	$V_{EN}=0V$			2		
Shutdown Current	I_{SHDN}	$V_{IN}=5.0V, V_{EN}=0V$		0.1	1	μA	
Shutdown Output Voltage	$V_{OUT,SD}$	$I_{OUT}=0.4mA, V_{EN}=0$			0.4	V	
Protection							
Output Current Limit	I_{LIM}	$V_{OUT}=0.9 \times V_{OUT(NOM)}$	400			mA	
Thermal Shutdown Temperature	T_{SHDN}	Shutdown, temperature increasing		150		°C	
Thermal Shutdown Hysteresis	$T_{SHDN(HYS)}$			20			

Note1: Dropout Voltage is measured at $V_{OUT}=V_{OUT(NOM)} \times 98\%$

Note2: For V_{OUT} below 2.0V, Dropout Voltage is the input $t_{(MIN)}$ to output differential.

■ Detailed Description

The AME8853 family of CMOS regulators contain a PMOS pass transistor, voltage reference, error amplifier, over-current protection thermal shutdown, and Power Good detection circuitry.

The P-channel pass transistor receives data from the error amplifier, over-current shutdown, and thermal protection circuits. During normal operation, the error amplifier compares the output voltage to a precision reference. Over-current and Thermal shutdown circuits become active when the junction temperature exceeds 150°C, or the current exceeds 300mA. During thermal shutdown, the output voltage remains low. Normal operation is restored when the junction temperature drops more 20°C.

Capacitor Selection and Regulator Stability

The AME8853 is stable with an output capacitor to ground of 1µF or greater. Ceramic capacitors have the lowest ESR, and will offer the best AC performance. Conversely, Aluminum Electrolytic capacitors exhibit the highest ESR, resulting in the poorest AC response. Unfortunately, large value ceramic capacitors are comparatively expensive. One option is to parallel a 0.1µF ceramic capacitor with a 10µF Aluminum Electrolytic. The benefit is low ESR, high capacitance, and low overall cost.

A second capacitor is recommended between the input and ground to stabilize V_{IN} . The input capacitor should be at least 0.1µF to have a beneficial effect.

Enable Pin

The Enable Pin is Active High. When activated pulled low, the MOS pass transistor shuts off, and all internal circuits are powered down. In this state, the stand by current is than 1µA. When EN pin float outside, It's pulled high.

Capacitor Selection and Regulator Stability

The maximum output power of the AME8853 is limited by the maximum power dissipation of the package. By calculation the power dissipation of the package as a function of the input voltage, output voltage and output current, the maximum input voltage can be obtained. The maximum power dissipation should not exceed the package's maximum power rating.

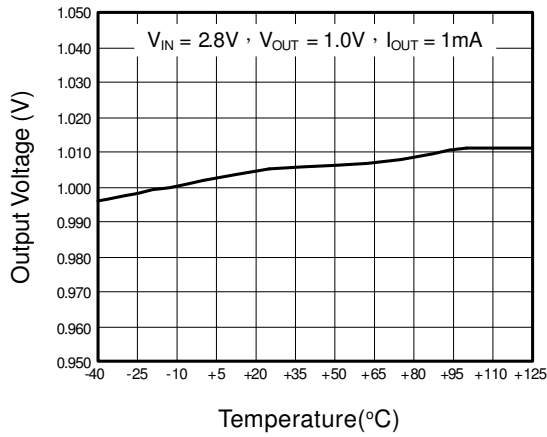
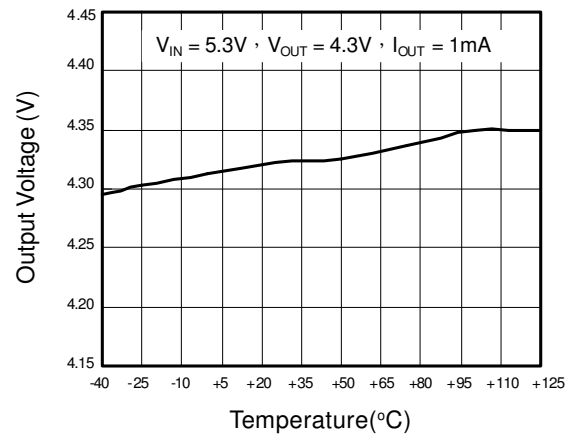
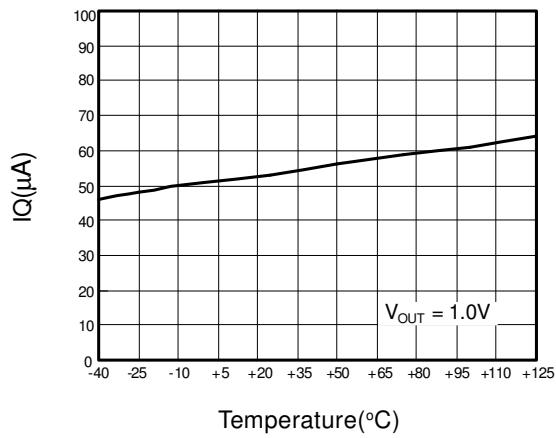
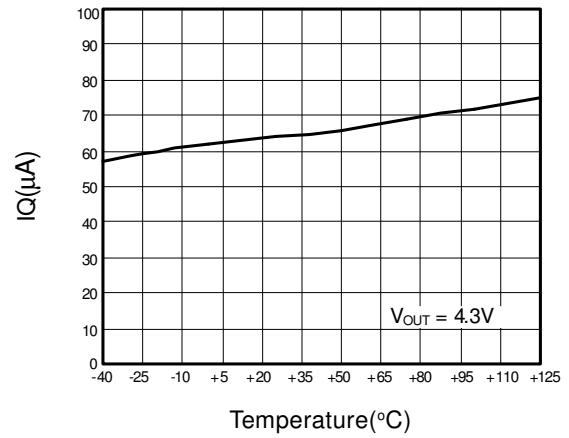
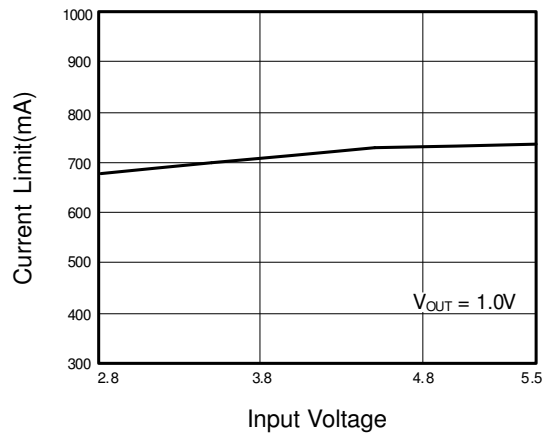
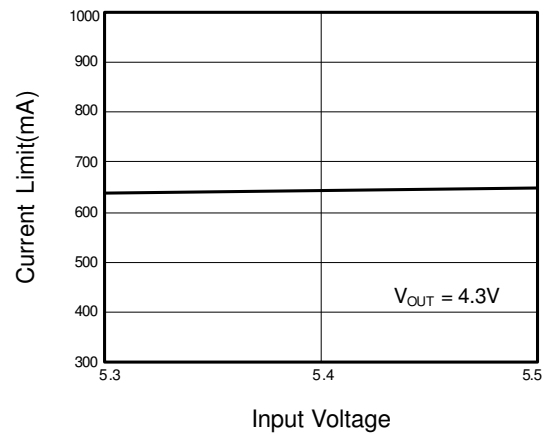
$$P_{MAX} = (V_{IN(MAX)} - V_{OUT}) \times I_{OUT}$$

Where:

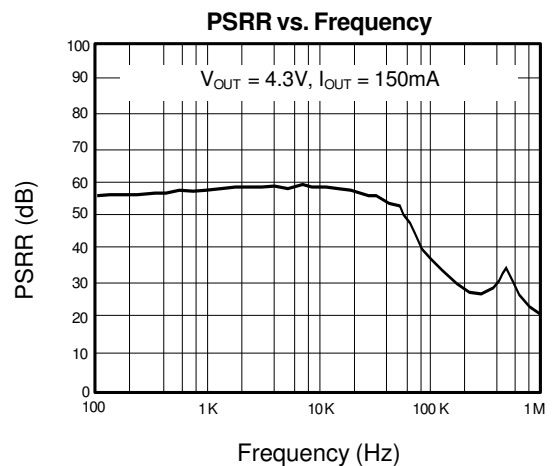
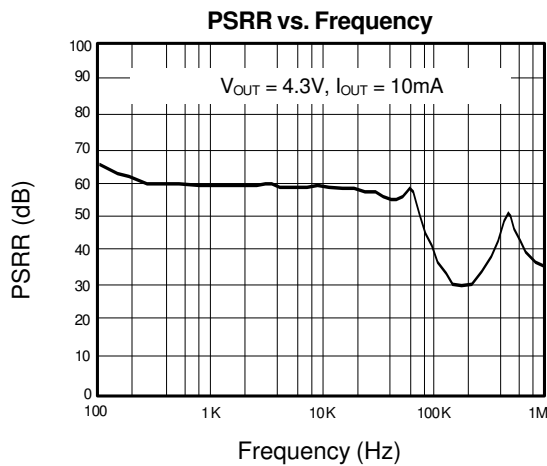
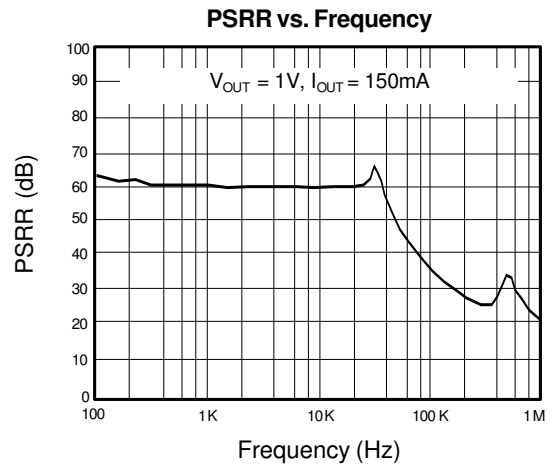
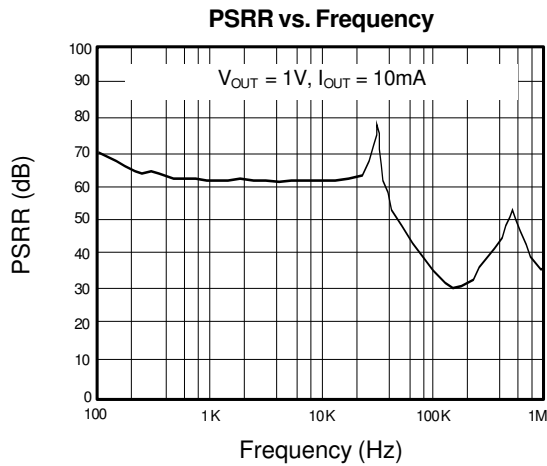
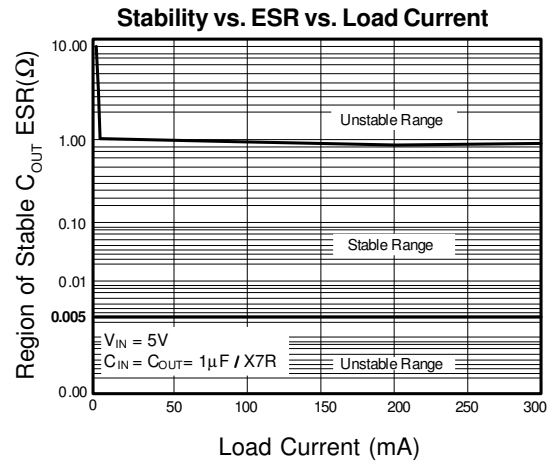
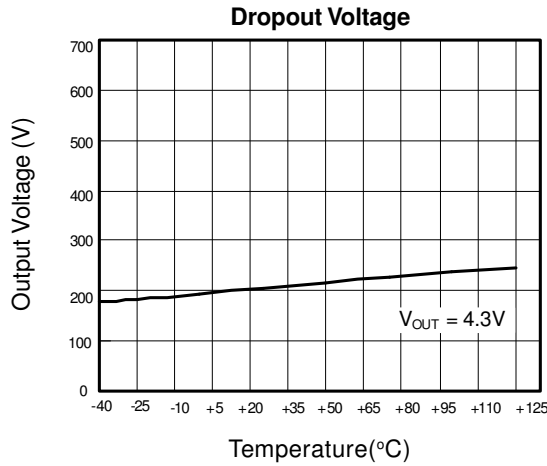
$V_{IN(MAX)}$ = maximum input voltage

P_{MAX} = maximum power dissipation of the package

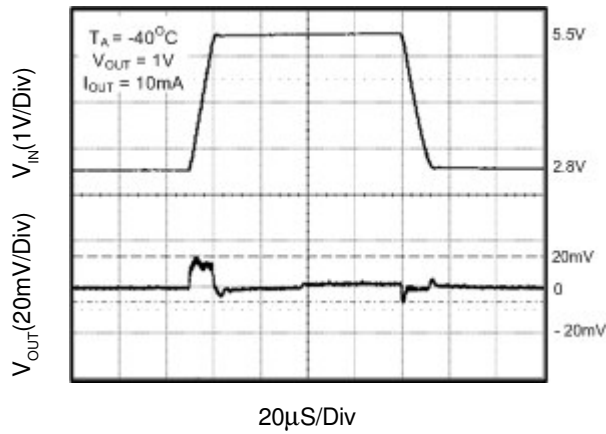
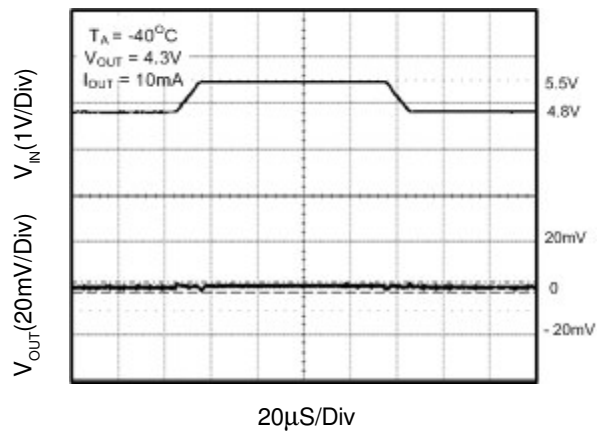
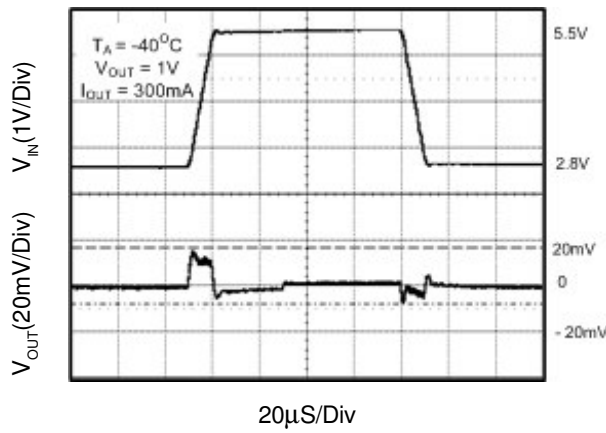
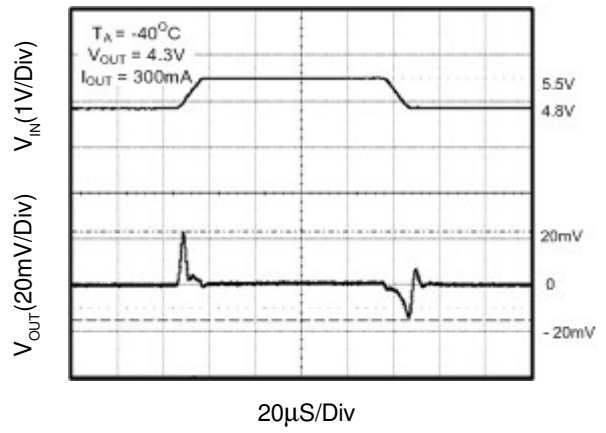
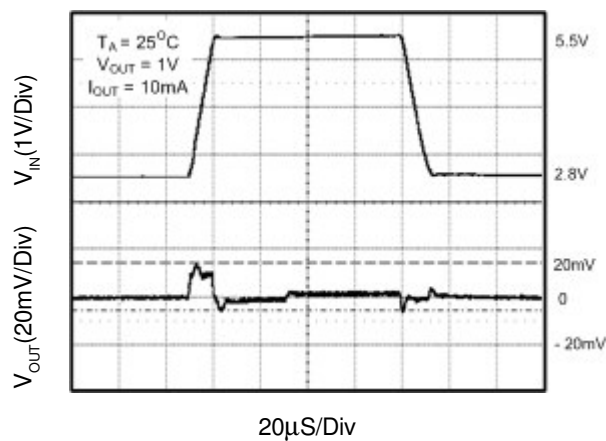
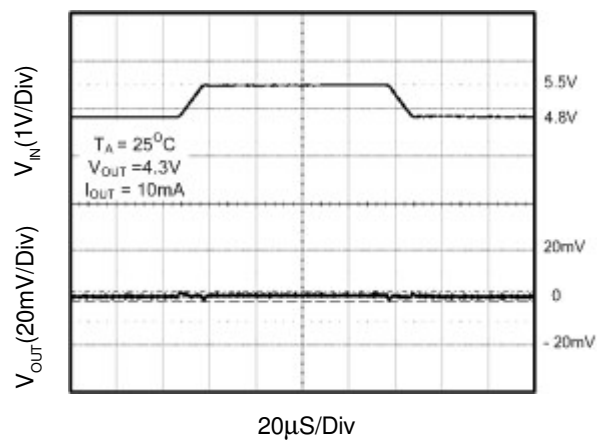
■ Characterization Curve

Output Voltage

Output Voltage

Quiescent Current

Quiescent Current

Current Limit vs. Input Voltage

Current Limit vs. Input Voltage


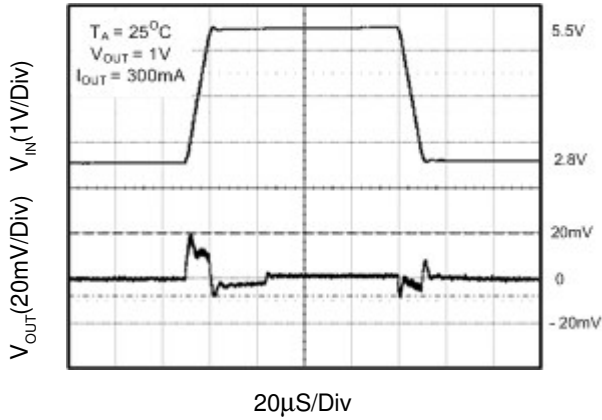
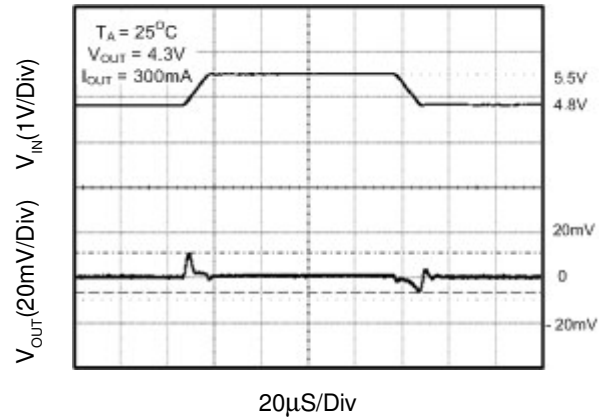
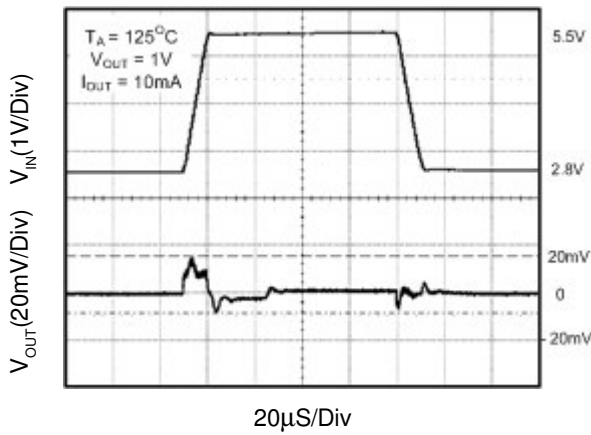
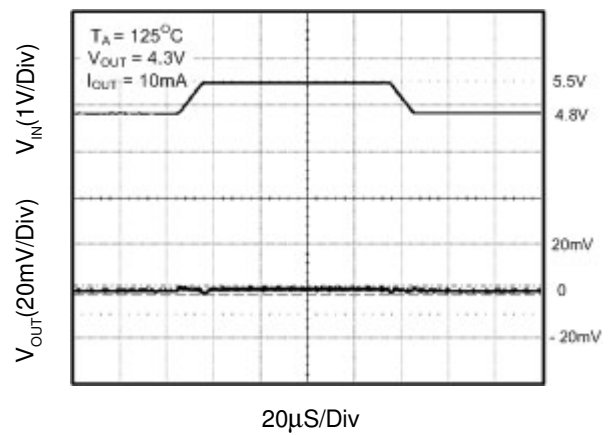
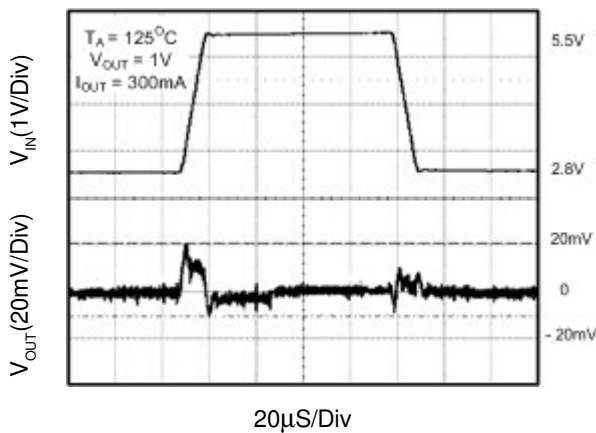
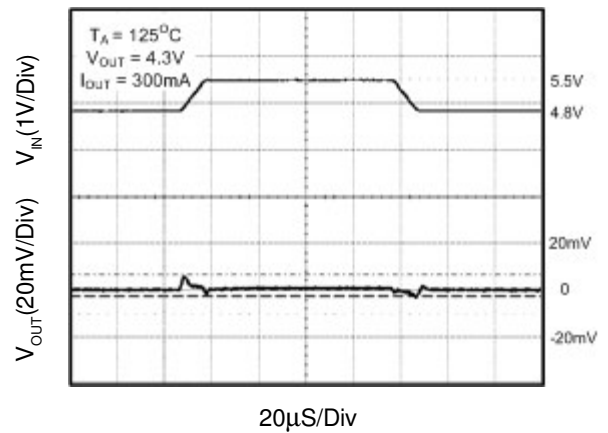
■ Characterization Curve (Contd.)



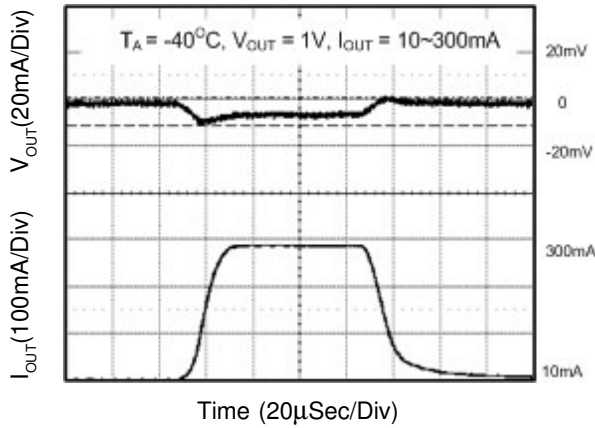
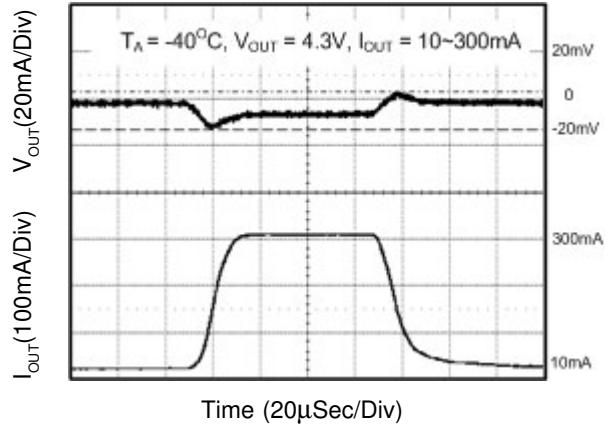
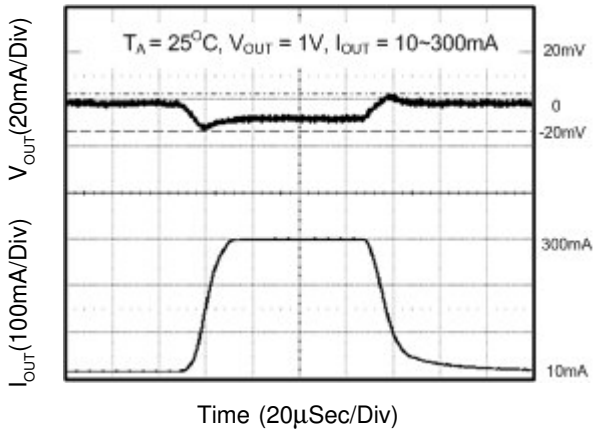
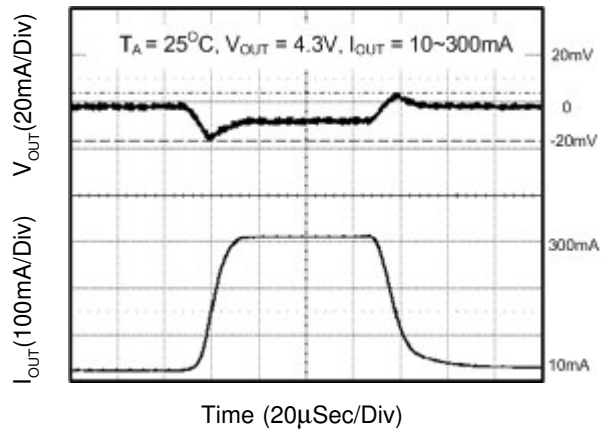
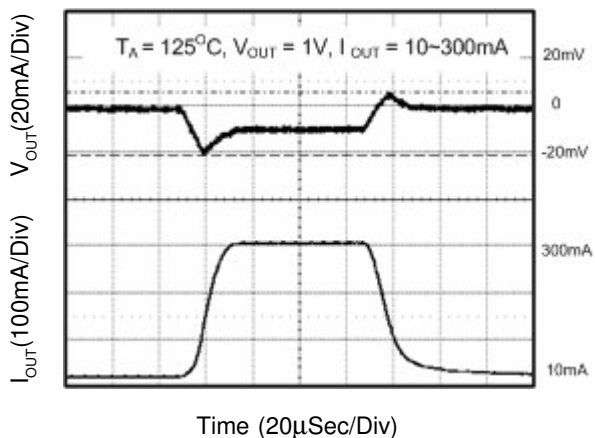
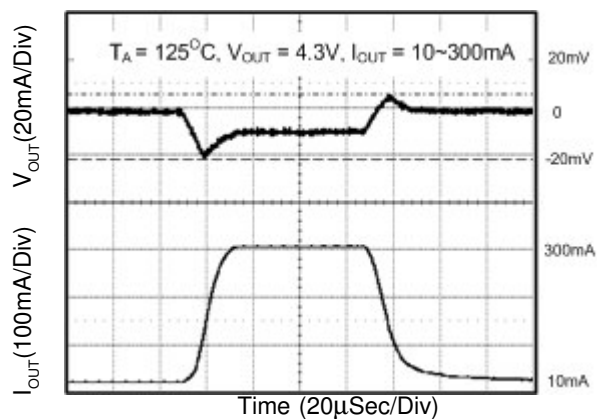
■ Characterization Curve (Contd.)

Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response


■ Characterization Curve (Contd.)

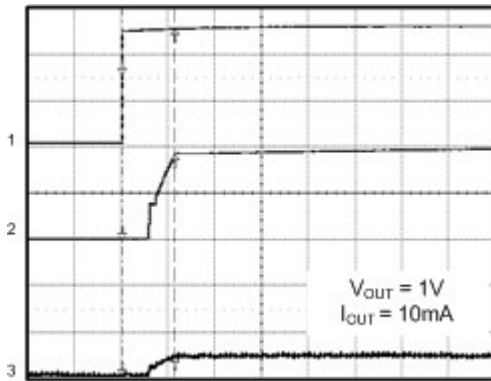
Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response

Line Transient Response


■ Characterization Curve (Contd.)

Load Transient Response

Load Transient Response

Load Transient Response

Load Transient Response

Load Transient Response

Load Transient Response


■ Characterization Curve (Contd.)

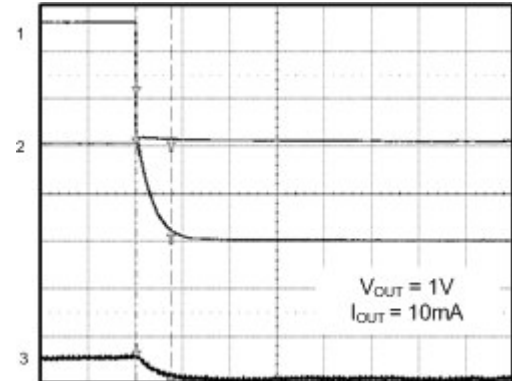
Chip Enable Transient Response



50 μ S/Div

- 1) EN= 1V/div
- 2) V_{OUT} = 500mV/div
- 3) I_{OUT} = 20mA/div

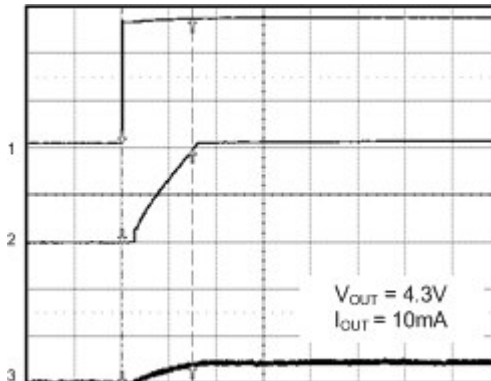
Chip Enable Transient Response



50 μ S/Div

- 1) EN= 1V/div
- 2) V_{OUT} = 500V/div
- 3) I_{OUT} = 20mA/div

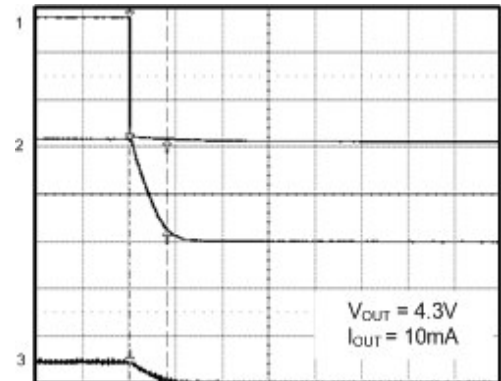
Chip Enable Transient Response



100 μ S/Div

- 1) EN= 2V/div
- 2) V_{OUT} = 2V/div
- 3) I_{OUT} = 20mA/div

Chip Enable Transient Response

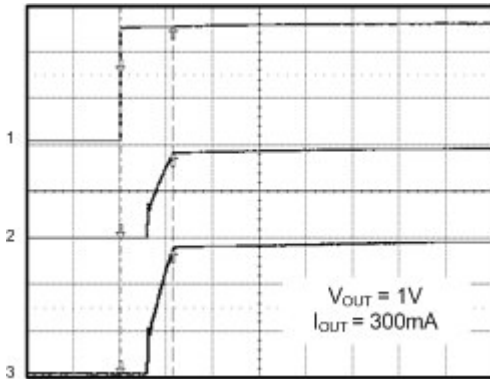


50 μ S/Div

- 1) EN= 2V/div
- 2) V_{OUT} = 2V/div
- 3) I_{OUT} = 20mA/div

■ Characterization Curve (Contd.)

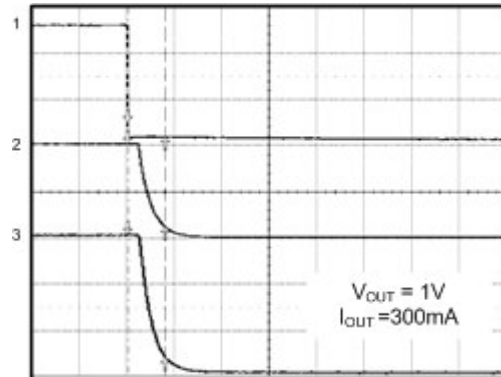
Chip Enable Transient Response



50µS/Div

- 1) EN= 1V/div
- 2) V_{OUT} = 500mV/div
- 3) I_{OUT} = 100mA/div

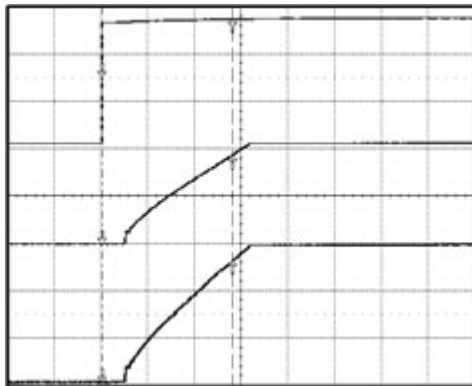
Chip Enable Transient Response



10µS/Div

- 1) EN= 1V/div
- 2) V_{OUT} = 500mV/div
- 3) I_{OUT} = 100mA/div

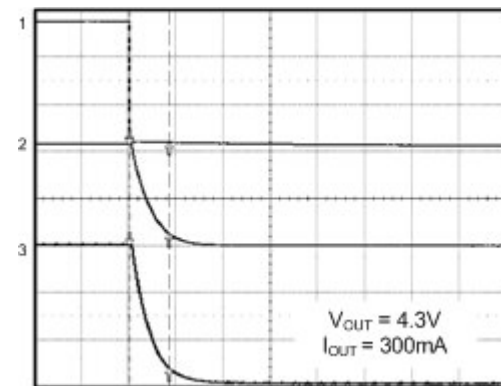
Chip Enable Transient Response



50µS/Div

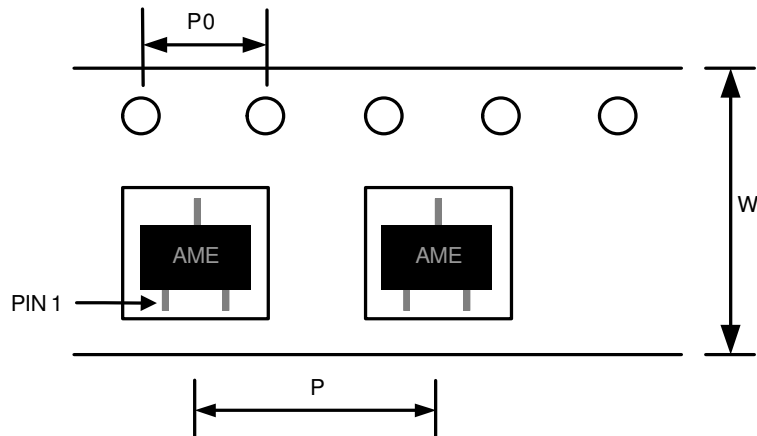
- 1) EN= 2V/div
- 2) V_{OUT} = 2V/div
- 3) I_{OUT} = 100mA/div

Chip Enable Transient Response

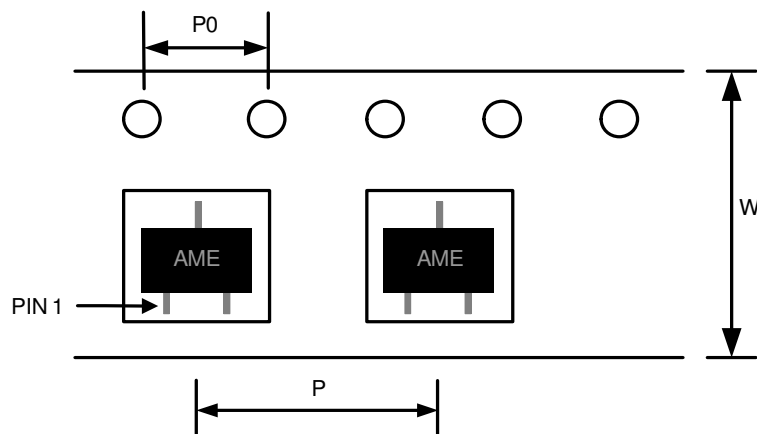


20µS/Div

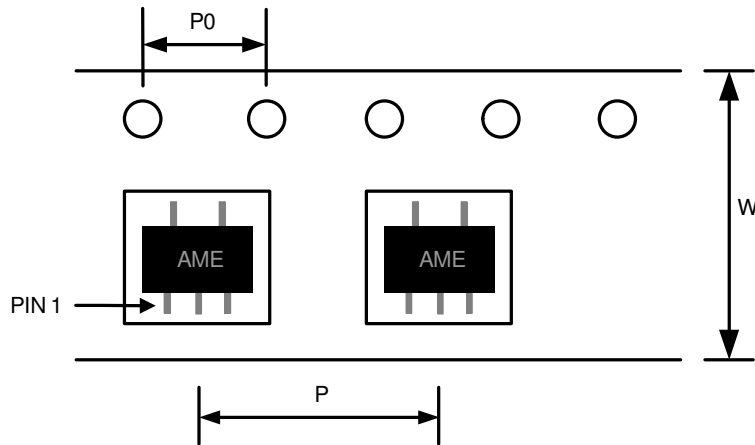
- 1) EN= 2V/div
- 2) V_{OUT} = 2V/div
- 3) I_{OUT} = 100mA/div

AME8853
■ Tape and Reel Dimension
SOT-23

Carrier Tape, Number of Components Per Reel and Reel Size

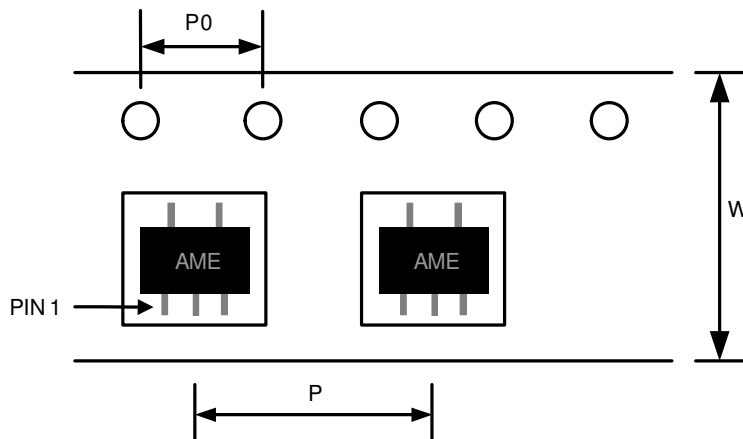
Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
SOT-23	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

TSOT-23A

Carrier Tape, Number of Components Per Reel and Reel Size

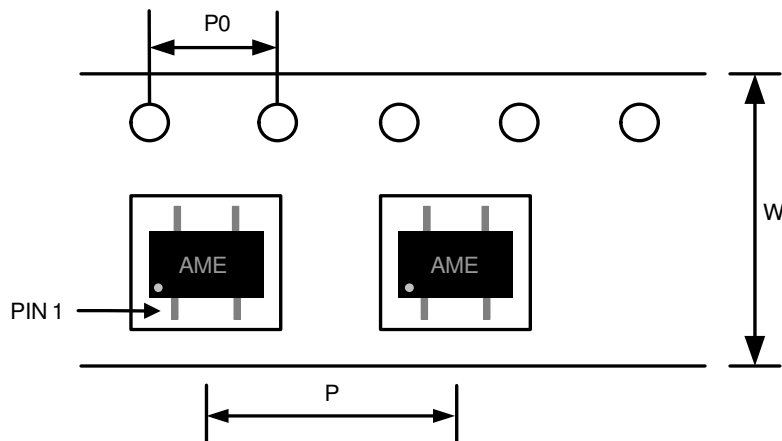
Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
TSOT-23A	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

AME8853
■ Tape and Reel Dimension (Contd.)
SOT-25

Carrier Tape, Number of Components Per Reel and Reel Size

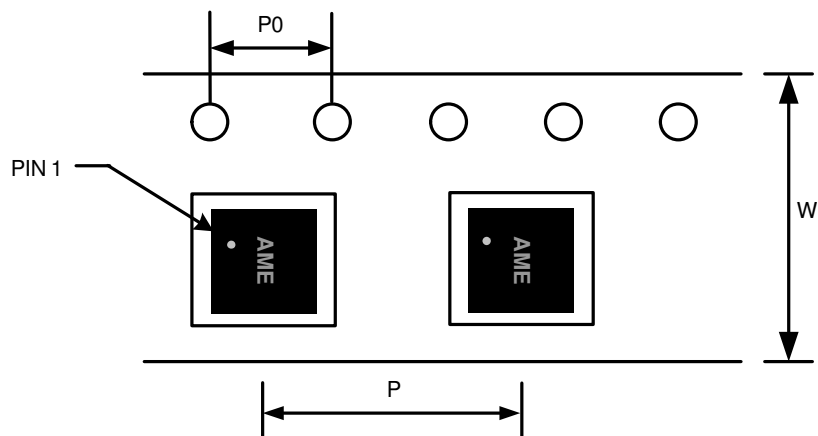
Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
SOT-25	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

TSOT-25A

Carrier Tape, Number of Components Per Reel and Reel Size

Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
TSOT-25A	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

AME8853
■ Tape and Reel Dimension (Contd.)
SC-70-4 (SC-82)

Carrier Tape, Number of Components Per Reel and Reel Size

Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
SC-70-4	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

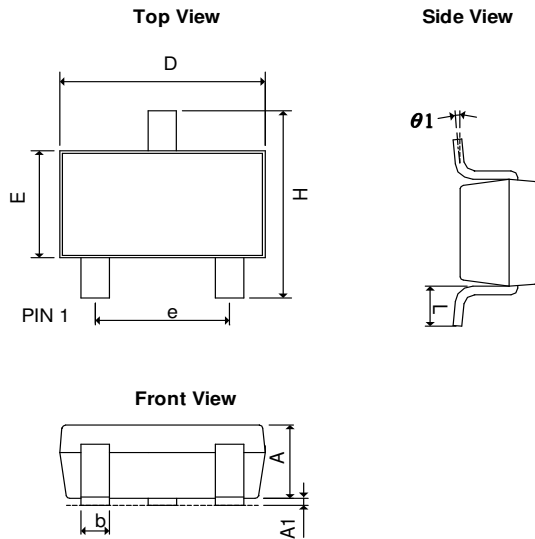
**DFN-6D
(2mmx2mmx0.75mm)**

Carrier Tape, Number of Components Per Reel and Reel Size

Package	Carrier Width (W)	Pitch (P)	Pitch (P0)	Part Per Full Reel	Reel Size
DFN-6D (2x2x0.75mm)	8.0±0.1 mm	4.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

AME8853

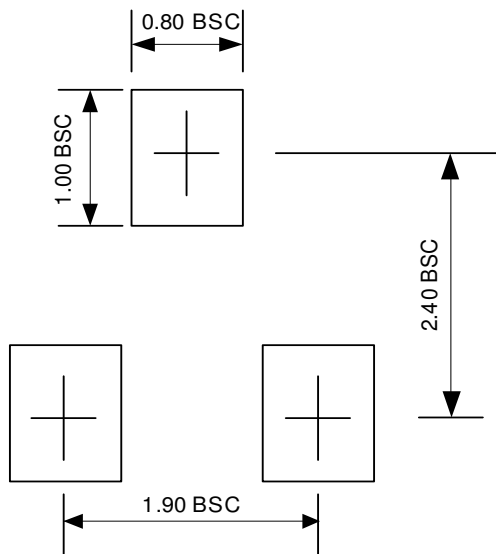
■ Package Dimension

SOT-23



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.40	0.0354	0.0551
A ₁	0.00	0.15	0.0000	0.0059
b	0.30	0.50	0.0118	0.0197
D	2.70	3.10	0.1063	0.1220
E	1.40	1.80	0.0551	0.0709
e	1.90 BSC		0.0748 BSC	
H	2.40	3.00	0.0945	0.1181
L	0.35BSC		0.0138 BSC	
$\theta 1$	0°	10°	0°	10°

■ Lead Pattern



Note:

1. Lead pattern unit description:

BSC: Basic. Represents theoretical exact dimension or dimension target.

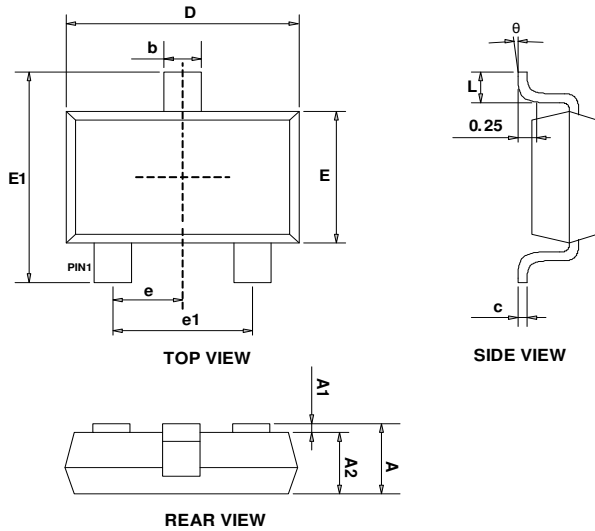
2. Dimensions in Millimeters.

3. General tolerance $\pm 0.05\text{mm}$ unless otherwise specified.

AME8853

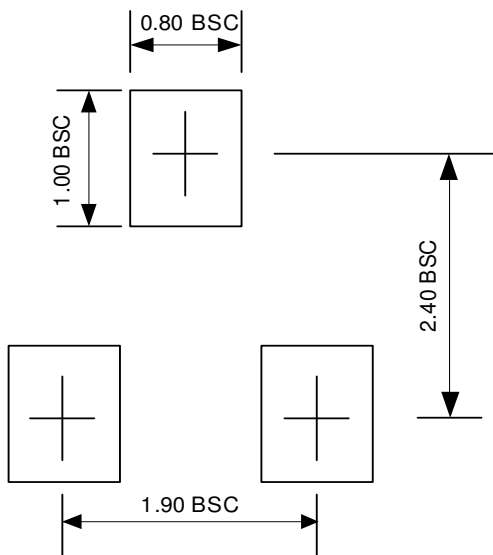
■ Package Dimension (Contd.)

TSOT-23A



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b	0.350	0.500	0.014	0.020
c	0.080	0.200	0.003	0.008
D	2.820	3.020	0.111	0.119
E	1.600	1.700	0.063	0.067
E1	2.650	2.950	0.104	0.116
e	0.95 BSC		0.037 BSC	
e1	1.90 BSC		0.075 BSC	
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°

■ Lead Pattern



Note:

1. Lead pattern unit description:

BSC: Basic. Represents theoretical exact dimension or dimension target.

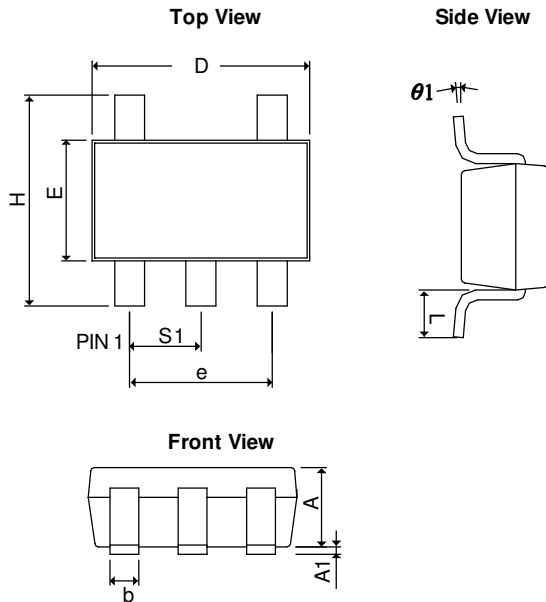
2. Dimensions in Millimeters.

3. General tolerance $\pm 0.05\text{mm}$ unless otherwise specified.

AME8853

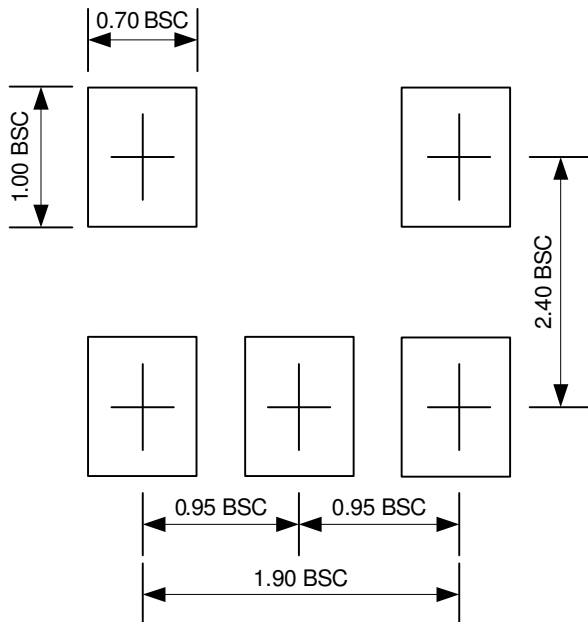
■ Package Dimension (Contd.)

SOT-25



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.30	0.0354	0.0512
A ₁	0.00	0.15	0.0000	0.0059
b	0.30	0.55	0.0118	0.0217
D	2.70	3.10	0.1063	0.1220
E	1.40	1.80	0.0551	0.0709
e	1.90 BSC		0.0748 BSC	
H	2.60	3.00	0.1024	0.1181
L	0.37 BSC		0.0146 BSC	
$\theta 1$	0°	10°	0°	10°
S ₁	0.95 BSC		0.0374 BSC	

■ Lead Pattern



Note:

1. Lead pattern unit description:

BSC: Basic. Represents theoretical exact dimension or dimension target.

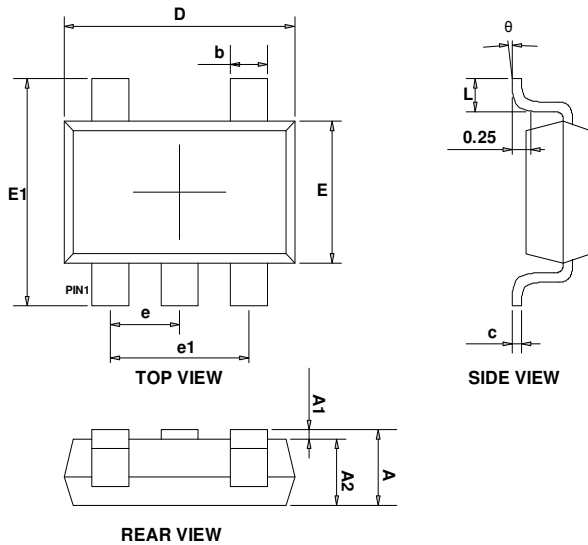
2. Dimensions in Millimeters.

3. General tolerance $\pm 0.05\text{mm}$ unless otherwise specified.

AME8853

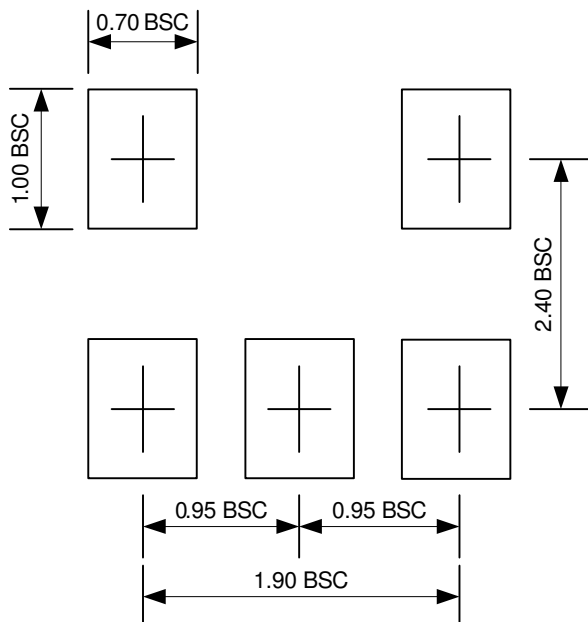
■ Package Dimension (Contd.)

TSOT-25A



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b	0.350	0.500	0.014	0.020
c	0.080	0.200	0.003	0.008
D	2.820	3.020	0.111	0.119
E	1.600	1.700	0.063	0.067
E1	2.650	2.950	0.104	0.116
e	0.95 BSC		0.037 BSC	
e1	1.90 BSC		0.075 BSC	
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°

■ Lead Pattern



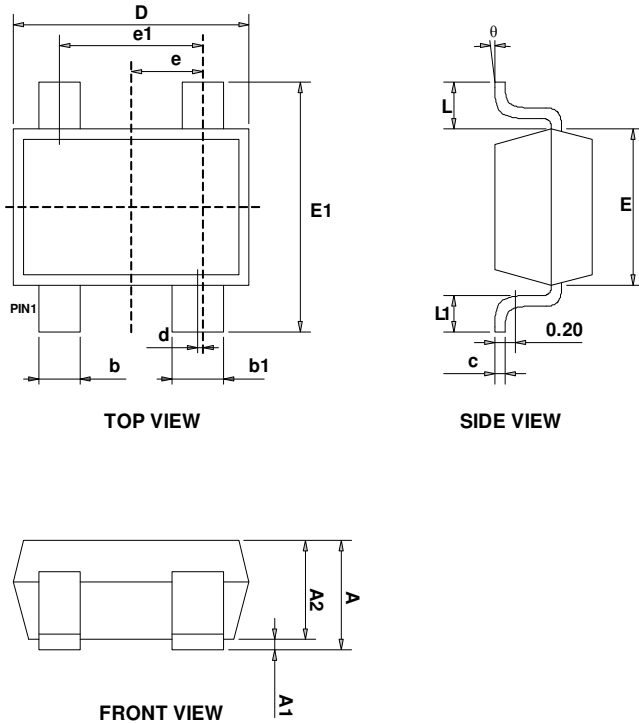
Note:

- Lead pattern unit description:
BSC: Basic. Represents theoretical exact dimension or dimension target.
- Dimensions in Millimeters.
- General tolerance $\pm 0.05\text{mm}$ unless otherwise specified.

AME8853

■ Package Dimension (Contd.)

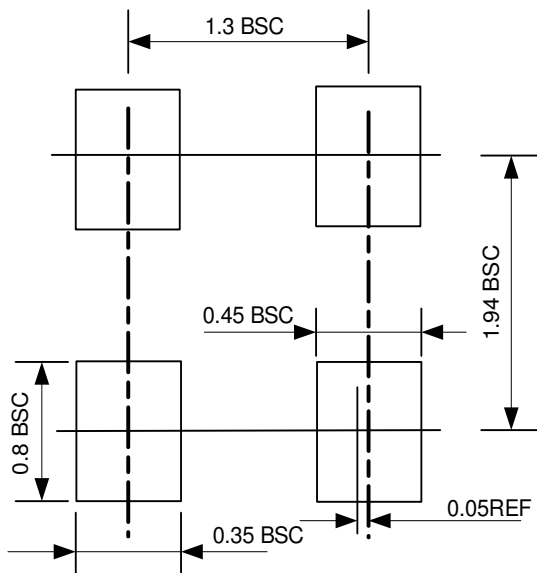
SC-70-4 (SC-82)



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.250	0.400	0.010	0.016
b1	0.350	0.500	0.014	0.020
c	0.080	0.150	0.003	0.006
d	0.050 TYP		0.002 TYP	
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

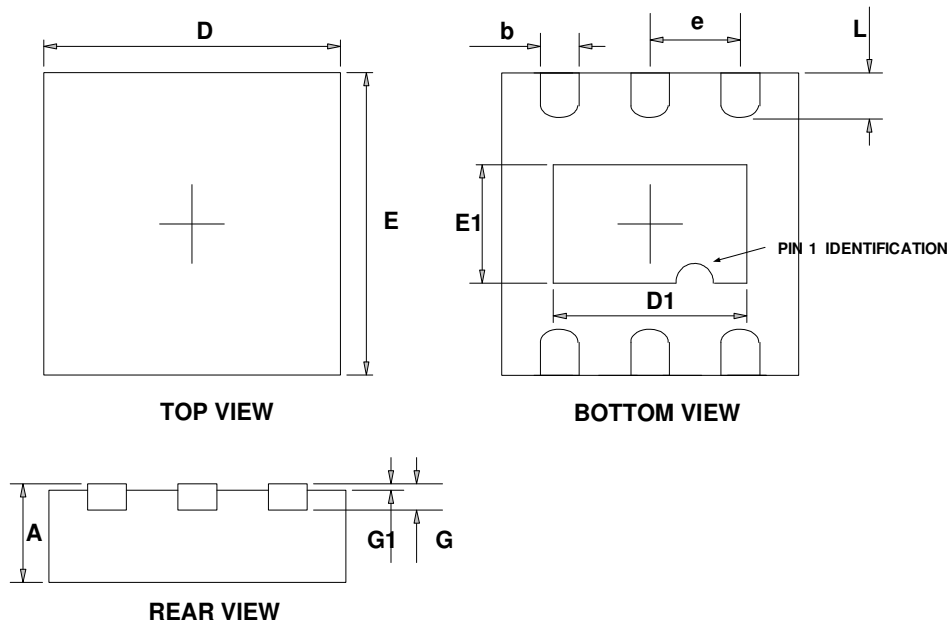
■ Lead Pattern

SC-70-4/SC-82



Note:

- Lead pattern unit description:
BSC: Basic. Represents theoretical exact dimension or dimension target.
- Dimensions in Millimeters.
- General tolerance $\pm 0.05\text{mm}$ unless otherwise specified.

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■ Package Dimension (Contd.)
**DFN-6D
(2mmx2mmx0.75mm)**


SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.700	0.800	0.028	0.031
D	1.900	2.100	0.075	0.083
E	1.900	2.100	0.075	0.083
e	0.650 TYP		0.026 TYP	
D1	1.100	1.650	0.043	0.065
E1	0.600	1.050	0.024	0.041
b	0.180	0.350	0.007	0.014
L	0.200	0.450	0.008	0.018
G	0.178	0.228	0.007	0.009
G1	0.000	0.050	0.000	0.002



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