

MC79M00 Series

MAXIMUM RATINGS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted.)

Rating	Symbol	Value	Unit
Input Voltage	V_I	-35	Vdc
Power Dissipation			
Case 221A (TO-220-3)			
$T_A = 25\text{ }^\circ\text{C}$	P_D	Internally Limited	W
Thermal Resistance, Junction-to-Ambient	θ_{JA}	65	$^\circ\text{C/W}$
Thermal Resistance, Junction-to-Case	θ_{JC}	5.0	$^\circ\text{C/W}$
Case 369C (DPAK-3)			
$T_A = 25\text{ }^\circ\text{C}$	P_D	Internally Limited	W
Thermal Resistance, Junction-to-Ambient	θ_{JA}	92	$^\circ\text{C/W}$
Thermal Resistance, Junction-to-Case	θ_{JC}	6.0	$^\circ\text{C/W}$
Storage Junction Temperature	T_{stg}	-65 to +150	$^\circ\text{C}$
Operating Junction Temperature Range	T_J	-40 to +150	$^\circ\text{C}$

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

* This device series contains ESD protection and exceeds the following tests:

Human Body Model 2000 V per MIL_STD_883, Method 3015

Machine Model Method 200 V

MC79M05B, C

ELECTRICAL CHARACTERISTICS ($V_I = -10\text{ V}$, $I_O = 350\text{ mA}$, T_{low} to T_{high} (Note 2), unless otherwise noted.)

Characteristic	Symbol	Min	Typ	Max	Unit
Output Voltage ($T_J = 25\text{ }^\circ\text{C}$)	V_O	-4.8	-5.0	-5.2	Vdc
Line Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 1) -7.0 Vdc $\geq V_I \geq$ -25 Vdc -8.0 Vdc $\geq V_I \geq$ -18 Vdc	Reg_{line}	-	7.0 2.0	50 30	mV
Load Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 1) 5.0 mA $\leq I_O \leq$ 500 mA	Reg_{load}	-	30	100	mV
Output Voltage -7.0 Vdc $\geq V_I \geq$ -25 Vdc, 5.0 mA $\leq I_O \leq$ 350 mA	V_O	-4.75	-	-5.25	Vdc
Input Bias Current ($T_J = 25\text{ }^\circ\text{C}$)	I_{IB}	-	4.3	8.0	mA
Input Bias Current Change -8.0 Vdc $\geq V_I \geq$ -25 Vdc, $I_O = 350\text{ mA}$ 5.0 mA $\leq I_O \leq$ 350 mA, $V_I = -10\text{ V}$	ΔI_{IB}	-	-	0.4 0.4	mA
Output Noise Voltage, $T_A = 25\text{ }^\circ\text{C}$, 10 Hz $\leq f \leq$ 100 kHz	V_n	-	40	-	μV
Ripple Rejection ($f = 120\text{ Hz}$)	RR	54	66	-	dB
Dropout Voltage $I_O = 500\text{ mA}$, $T_J = 25\text{ }^\circ\text{C}$	$V_I - V_O$	-	1.1	-	Vdc
Average Temperature Coefficient of Output Voltage $I_O = 5.0\text{ mA}$, $0^\circ\text{C} \leq T_J \leq 125\text{ }^\circ\text{C}$	$\Delta V_O / \Delta T$	-	0.2	-	$\text{mV}/^\circ\text{C}$

1. Load and line regulation are specified at constant temperature. Change in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

2. B = T_{low} to T_{high} , $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ C = T_{low} to T_{high} , $0^\circ\text{C} < T_J < 125^\circ\text{C}$.

MC79M00 Series

MC79M08B, C

ELECTRICAL CHARACTERISTICS ($V_I = -10\text{ V}$, $I_O = 350\text{ mA}$, T_{low} to T_{high} (Note 4), unless otherwise noted.)

Characteristic	Symbol	Min	Typ	Max	Unit
Output Voltage ($T_J = 25\text{ }^\circ\text{C}$)	V_O	-7.7	-8.0	-8.3	Vdc
Line Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 3) -10.5 Vdc $\geq V_I \geq -25\text{ Vdc}$ -11 Vdc $\geq V_I \geq -21\text{ Vdc}$	Reg_{line}	-	5.0 3.0	80 50	mV
Load Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 3) $5.0\text{ mA} \leq I_O \leq 500\text{ mA}$	Reg_{load}	-	30	100	mV
Output Voltage -10.5 Vdc $\geq V_I \geq -25\text{ Vdc}$, $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$	V_O	-7.6	-8.0	-8.4	Vdc
Input Bias Current ($T_J = 25\text{ }^\circ\text{C}$)	I_{IB}	-	-	8.0	mA
Input Bias Current Change -10.5 Vdc $\geq V_I \geq -25\text{ Vdc}$, $I_O = 350\text{ mA}$ $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$, $V_I = -10\text{ V}$	ΔI_{IB}	-	-	0.4 0.4	mA
Output Noise Voltage, $T_A = 25\text{ }^\circ\text{C}$, $10\text{ Hz} \leq f \leq 100\text{ kHz}$	V_n	-	60	-	μV
Ripple Rejection ($f = 120\text{ Hz}$)	RR	54	63	-	dB
Dropout Voltage $I_O = 500\text{ mA}$, $T_J = 25\text{ }^\circ\text{C}$	$V_I - V_O$	-	1.1	-	Vdc
Average Temperature Coefficient of Output Voltage $I_O = 5.0\text{ mA}$, $0^\circ\text{C} \leq T_J \leq 125\text{ }^\circ\text{C}$	$\Delta V_O / \Delta T$	-	0.4	-	$\text{mV}/^\circ\text{C}$

3. Load and line regulation are specified at constant temperature. Change in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.
4. B = T_{low} to T_{high} , $-40\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$
C = T_{low} to T_{high} , $0\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$

MC79M12B, C

ELECTRICAL CHARACTERISTICS ($V_I = -19\text{ V}$, $I_O = 350\text{ mA}$, T_{low} to T_{high} (Note 6), unless otherwise noted.)

Characteristic	Symbol	Min	Typ	Max	Unit
Output Voltage ($T_J = 25\text{ }^\circ\text{C}$)	V_O	-11.5	-12	-12.5	Vdc
Line Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 5) -14.5 Vdc $\geq V_I \geq -30\text{ Vdc}$ -15 Vdc $\geq V_I \geq -25\text{ Vdc}$	Reg_{line}	-	5.0 3.0	80 50	mV
Load Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 5) $5.0\text{ mA} \leq I_O \leq 500\text{ mA}$	Reg_{load}	-	30	240	mV
Output Voltage -14.5 Vdc $\geq V_I \geq -30\text{ Vdc}$, $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$	V_O	-11.4	-	-12.6	Vdc
Input Bias Current ($T_J = 25\text{ }^\circ\text{C}$)	I_{IB}	-	4.4	8.0	mA
Input Bias Current Change -14.5 Vdc $\geq V_I \geq -30\text{ Vdc}$, $I_O = 350\text{ mA}$ $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$, $V_I = -19\text{ V}$	ΔI_{IB}	-	-	0.4 0.4	mA
Output Noise Voltage, $T_A = 25\text{ }^\circ\text{C}$, $10\text{ Hz} \leq f \leq 100\text{ kHz}$	V_n	-	75	-	μV
Ripple Rejection ($f = 120\text{ Hz}$)	RR	54	60	-	dB
Dropout Voltage $I_O = 500\text{ mA}$, $T_J = 25\text{ }^\circ\text{C}$	$V_I - V_O$	-	1.1	-	Vdc
Average Temperature Coefficient of Output Voltage $I_O = 5.0\text{ mA}$, $0^\circ\text{C} \leq T_J \leq 125\text{ }^\circ\text{C}$	$\Delta V_O / \Delta T$	-	-0.8	-	$\text{mV}/^\circ\text{C}$

5. Load and line regulation are specified at constant temperature. Change in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.
6. B = T_{low} to T_{high} , $-40\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$
C = T_{low} to T_{high} , $0\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$

MC79M00 Series

MC79M15B, C

ELECTRICAL CHARACTERISTICS ($V_I = -23\text{ V}$, $I_O = 350\text{ mA}$, T_{low} to T_{high} (Note 8), unless otherwise noted.)

Characteristic	Symbol	Min	Typ	Max	Unit
Output Voltage ($T_J = 25\text{ }^\circ\text{C}$)	V_O	-14.4	-15	-15.6	Vdc
Line Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 7) -17.5 Vdc $\geq V_I \geq$ -30 Vdc -18 Vdc $\geq V_I \geq$ -28 Vdc	Reg_{line}	-	5.0 3.0	80 50	mV
Load Regulation, $T_J = 25\text{ }^\circ\text{C}$ (Note 7) $5.0\text{ mA} \leq I_O \leq 500\text{ mA}$	Reg_{load}	-	30	240	mV
Output Voltage -17.5 Vdc $\geq V_I \geq$ -30 Vdc, $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$	V_O	-14.25	-	-15.75	Vdc
Input Bias Current ($T_J = 25\text{ }^\circ\text{C}$)	I_{IB}	-	4.4	8.0	mA
Input Bias Current Change -17.5 Vdc $\geq V_I \geq$ -30 Vdc, $I_O = 350\text{ mA}$ $5.0\text{ mA} \leq I_O \leq 350\text{ mA}$, $V_I = -23\text{ V}$	ΔI_{IB}	-	-	0.4 0.4	mA
Output Noise Voltage, $T_A = 25\text{ }^\circ\text{C}$, $10\text{ Hz} \leq f \leq 100\text{ kHz}$	V_n	-	90	-	μV
Ripple Rejection ($f = 120\text{ Hz}$)	RR	54	60	-	dB
Dropout Voltage $I_O = 500\text{ mA}$, $T_J = 25\text{ }^\circ\text{C}$	$V_I - V_O$	-	1.1	-	Vdc
Average Temperature Coefficient of Output Voltage $I_O = 5.0\text{ mA}$, $0\text{ }^\circ\text{C} \leq T_J \leq 125\text{ }^\circ\text{C}$	$\Delta V_O / \Delta T$	-	-1.0	-	$\text{mV}/^\circ\text{C}$

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

- Load and line regulation are specified at constant temperature. Change in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.
- $B = T_{low}$ to T_{high} , $-40\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$
 $C = T_{low}$ to T_{high} , $0\text{ }^\circ\text{C} < T_J < 125\text{ }^\circ\text{C}$

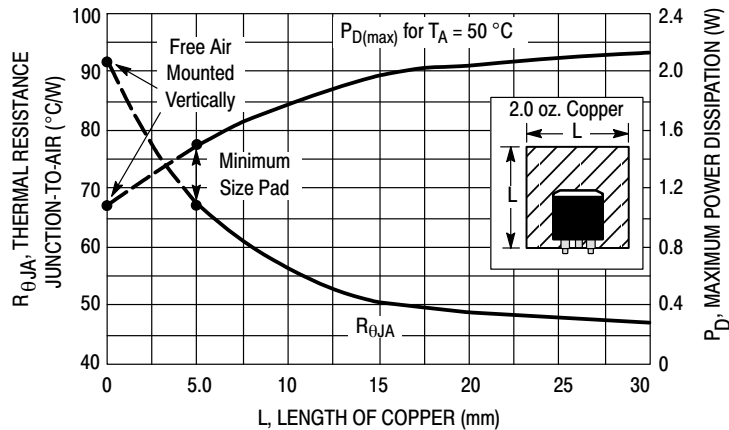


Figure 1. DPAK-3 Thermal Resistance and Maximum Power Dissipation versus P.C.B. Copper Length

MC79M00 Series

Protection Diodes

When external capacitors are used with MC79M00 series regulator it is sometimes necessary to add protection diodes to prevent the capacitors from discharging through low current points into the regulator or from output polarity reversals. Generally, no protection diode is required for values of output capacitance less than $10\ \mu\text{F}$. Figure 2 shows the MC79M15 with the recommended protection diodes.

- Opposite Polarity Protection

Diode D1 protects the regulator from output polarity reversals during startup, power off and short-circuit operation.

- Reverse-bias Protection

Diode D2 prevents output capacitor from discharging through the MC79M15 during an input short circuit or fast switch off of power supply.

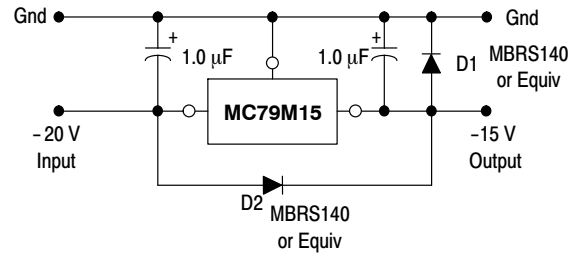


Figure 2. Protection Diodes

MC79M00 Series

ORDERING INFORMATION

Device	Output Voltage Tolerance	Operating Temperature Range	Package	Shipping [†]
MC79M05BDTG	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	75 Units / Rail
MC79M05BDTRKG			DPAK (Pb-Free)	2500 / Tape & Reel
MC79M05CDTRKG		$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M08BDTRKG		$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M08CDTRKG		$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M12BDTRKG		$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M12BTG			TO-220 (Pb-Free)	50 Units / Rail
MC79M12CDTRKG		$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M15BDTRKG	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M15BTG			TO-220 (Pb-Free)	50 Units / Rail
MC79M15CDTRKG		$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	2500 / Tape & Reel
MC79M15CTG		TO-220 (Pb-Free)	50 Units / Rail	

DISCONTINUED (Note 9)

MC79M05BDT	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK	75 Units / Rail
MC79M05BDTRK	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK	2500 / Tape & Reel
MC79M05BT	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	TO-220	50 Units / Rail
MC79M05CDT	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK	75 Units / Rail
MC79M05CDTG	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	75 Units / Rail
MC79M05CDTRK	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK	2500 / Tape & Reel
MC79M05CT	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	TO-220	50 Units / Rail
MC79M05CTG	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	TO-220 (Pb-Free)	50 Units / Rail
MC79M08BDT	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK	75 Units / Rail
MC79M08BDTRK	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	DPAK	2500 / Tape & Reel
MC79M08BT	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	TO-220	50 Units / Rail
MC79M08BTG	4.0%	$T_J = -40\text{ °C to }+125\text{ °C}$	TO-220 (Pb-Free)	50 Units / Rail
MC79M08CDT	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK	75 Units / Rail
MC79M08CDTG	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK (Pb-Free)	75 Units / Rail
MC79M08CDTRK	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	DPAK	2500 / Tape & Reel
MC79M08CT	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	TO-220	50 Units / Rail
MC79M08CTG	4.0%	$T_J = 0\text{ °C to }+125\text{ °C}$	TO-220 (Pb-Free)	50 Units / Rail

MC79M00 Series

ORDERING INFORMATION

Device	Output Voltage Tolerance	Operating Temperature Range	Package	Shipping [†]
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DISCONTINUED (Note 9)

MC79M12BDT	4.0%	T _J = -40 °C to +125 °C	DPAK	75 Units / Rail
MC79M12BDTG	4.0%	T _J = -40 °C to +125 °C	DPAK (Pb-Free)	75 Units / Rail
MC79M12BDTRK	4.0%	T _J = -40 °C to +125 °C	DPAK	2500 / Tape & Reel
MC79M12BT	4.0%	T _J = -40 °C to +125 °C	TO-220	50 Units / Rail
MC79M12CDT	4.0%	T _J = 0 °C to +125 °C	DPAK	75 Units / Rail
MC79M12CDTG	4.0%	T _J = 0 °C to +125 °C	DPAK (Pb-Free)	75 Units / Rail
MC79M12CDTRK	4.0%	T _J = 0 °C to +125 °C	DPAK	2500 / Tape & Reel
MC79M12CT	4.0%	T _J = 0 °C to +125 °C	TO-220	50 Units / Rail
MC79M12CTG	4.0%	T _J = 0 °C to +125 °C	TO-220 (Pb-Free)	50 Units / Rail
MC79M15BDT	4.0%	T _J = -40 °C to +125 °C	DPAK	75 Units / Rail
MC79M15BDTG	4.0%	T _J = -40 °C to +125 °C	DPAK (Pb-Free)	75 Units / Rail
MC79M15BDTRK	4.0%	T _J = -40 °C to +125 °C	DPAK	2500 / Tape & Reel
MC79M15BT	4.0%	T _J = -40 °C to +125 °C	TO-220	50 Units / Rail
MC79M15CDT	4.0%	T _J = 0 °C to +125 °C	DPAK	75 Units / Rail
MC79M15CDTG	4.0%	T _J = 0 °C to +125 °C	DPAK (Pb-Free)	75 Units / Rail
MC79M15CDTRK	4.0%	T _J = 0 °C to +125 °C	DPAK	2500 / Tape & Reel
MC79M15CT	4.0%	T _J = 0 °C to +125 °C	TO-220	50 Units / Rail
MC79M05BTG	4.0%	T _J = -40 °C to +125 °C	TO-220 (Pb-Free)	50 Units / Rail

[†] For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, [BRD8011/D](#).

9. **DISCONTINUED:** These devices are not available. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.

MC79M00 Series

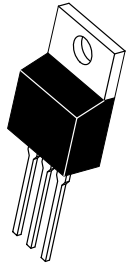
REVISION HISTORY

Revision	Description of Changes	Date
16	Rebranded the Data Sheet to onsemi format. MC79M05BDT, MC79M05BDTRK, MC79M05BT, MC79M05CDT, MC79M05CDTG, MC79M05CDTRK, MC79M05CT, MC79M05CTG, MC79M08BDT, MC79M08BDTRK, MC79M08BT, MC79M08BTG, MC79M08CDT, MC79M08CDTG, MC79M08CDTRK, MC79M08CT, MC79M08CTG, MC79M12BDT, MC79M12BDTG, MC79M12BDTRK, MC79M12BT, MC79M12CDT, MC79M12CDTG, MC79M12CDTRK, MC79M12CT, MC79M12CTG, MC79M15BDT, MC79M15BDTG, MC79M15BDTRK, MC79M15BT, MC79M15CDT, MC79M15CDTG, MC79M15CDTRK, MC79M15CT, MC79M05BTG OPNs Marked as Discontinued.	2/27/2026

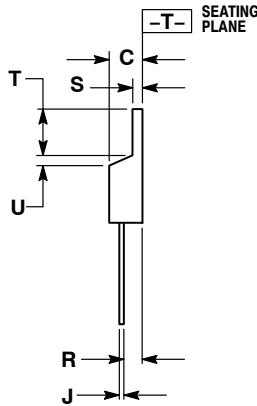
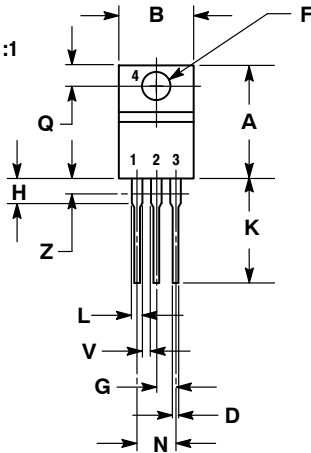
This document has undergone updates prior to the inclusion of this revision history table. The changes tracked here only reflect updates made on the noted approval dates.

TO-220, SINGLE GAUGE
CASE 221AB
ISSUE A

DATE 16 NOV 2010



SCALE 1:1



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCHES.
3. DIMENSION Z DEFINES A ZONE WHERE ALL BODY AND LEAD IRREGULARITIES ARE ALLOWED.
4. PRODUCT SHIPPED PRIOR TO 2008 HAD DIMENSIONS S = 0.045 - 0.055 INCHES (1.143 - 1.397 MM)

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.570	0.620	14.48	15.75
B	0.380	0.405	9.66	10.28
C	0.160	0.190	4.07	4.82
D	0.025	0.035	0.64	0.88
F	0.142	0.147	3.61	3.73
G	0.095	0.105	2.42	2.66
H	0.110	0.155	2.80	3.93
J	0.018	0.025	0.46	0.64
K	0.500	0.562	12.70	14.27
L	0.045	0.060	1.15	1.52
N	0.190	0.210	4.83	5.33
Q	0.100	0.120	2.54	3.04
R	0.080	0.110	2.04	2.79
S	0.020	0.024	0.508	0.61
T	0.235	0.255	5.97	6.47
U	0.000	0.050	0.00	1.27
V	0.045	---	1.15	---
Z	---	0.080	---	2.04

STYLE 1:

- PIN 1. BASE
- 2. COLLECTOR
- 3. EMITTER
- 4. COLLECTOR

STYLE 2:

- PIN 1. BASE
- 2. EMITTER
- 3. COLLECTOR
- 4. EMITTER

STYLE 3:

- PIN 1. CATHODE
- 2. ANODE
- 3. GATE
- 4. ANODE

STYLE 4:

- PIN 1. MAIN TERMINAL 1
- 2. MAIN TERMINAL 2
- 3. GATE
- 4. MAIN TERMINAL 2

STYLE 5:

- PIN 1. GATE
- 2. DRAIN
- 3. SOURCE
- 4. DRAIN

STYLE 6:

- PIN 1. ANODE
- 2. CATHODE
- 3. ANODE
- 4. CATHODE

STYLE 7:

- PIN 1. CATHODE
- 2. ANODE
- 3. CATHODE
- 4. ANODE

STYLE 8:

- PIN 1. CATHODE
- 2. ANODE
- 3. EXTERNAL TRIP/DELAY
- 4. ANODE

STYLE 9:

- PIN 1. GATE
- 2. COLLECTOR
- 3. EMITTER
- 4. COLLECTOR

STYLE 10:

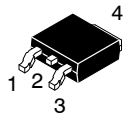
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- 2. SOURCE
- 3. DRAIN
- 4. SOURCE

STYLE 11:

- PIN 1. DRAIN
- 2. SOURCE
- 3. GATE
- 4. SOURCE

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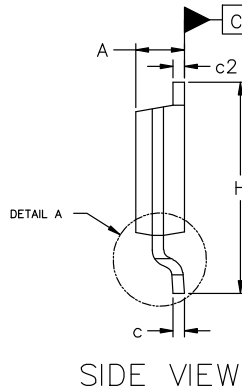
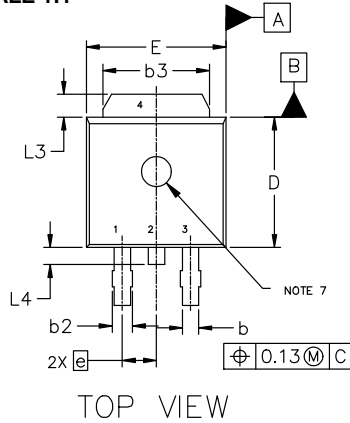
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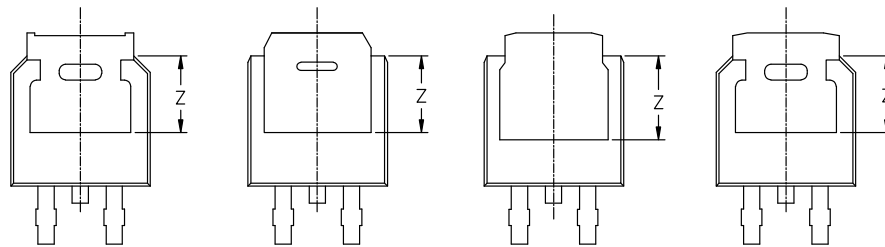
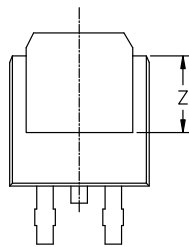
DPAK3 6.10x6.54x2.28, 2.29P
CASE 369C
ISSUE J

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SCALE 1:1

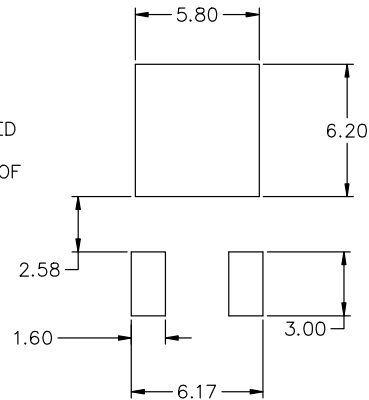
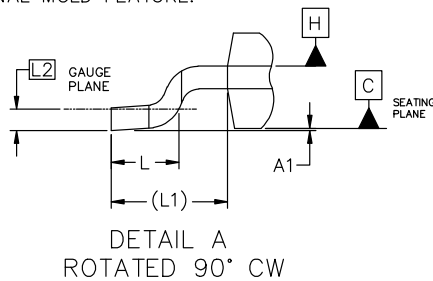


MILLIMETERS			
DIM	MIN	NOM	MAX
A	2.18	2.28	2.38
A1	0.00	---	0.13
b	0.63	0.76	0.89
b2	0.72	0.93	1.14
b3	4.57	5.02	5.46
c	0.46	0.54	0.61
c2	0.46	0.54	0.61
D	5.97	6.10	6.22
E	6.35	6.54	6.73
e	2.29 BSC		
H	9.40	9.91	10.41
L	1.40	1.59	1.78
L1	2.90 REF		
L2	0.51 BSC		
L3	0.89	---	1.27
L4	---	---	1.01
Z	3.93	---	---



NOTES:

1. DIMENSIONING AND TOLERANCING ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS b3, L3, AND Z.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15mm PER SIDE.
5. DIMENSIONS D AND E ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
6. DATUMS A AND B ARE DETERMINED AT DATUM PLANE H.
7. OPTIONAL MOLD FEATURE.



RECOMMENDED MOUNTING FOOTPRINT*

*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ONSEMI SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

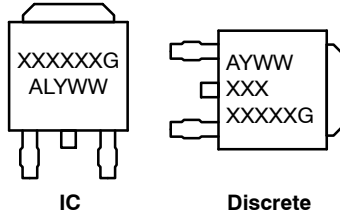
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**GENERIC
MARKING DIAGRAM***



- XXXXXX = Device Code
- A = Assembly Location
- L = Wafer Lot
- Y = Year
- WW = Work Week
- G = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

- | | | | | |
|--|--|---|---|--|
| <p>STYLE 1:
 PIN 1. BASE
 2. COLLECTOR
 3. EMITTER
 4. COLLECTOR</p> | <p>STYLE 2:
 PIN 1. GATE
 2. DRAIN
 3. SOURCE
 4. DRAIN</p> | <p>STYLE 3:
 PIN 1. ANODE
 2. CATHODE
 3. ANODE
 4. CATHODE</p> | <p>STYLE 4:
 PIN 1. CATHODE
 2. ANODE
 3. GATE
 4. ANODE</p> | <p>STYLE 5:
 PIN 1. GATE
 2. ANODE
 3. CATHODE
 4. ANODE</p> |
| <p>STYLE 6:
 PIN 1. MT1
 2. MT2
 3. GATE
 4. MT2</p> | <p>STYLE 7:
 PIN 1. GATE
 2. COLLECTOR
 3. EMITTER
 4. COLLECTOR</p> | <p>STYLE 8:
 PIN 1. N/C
 2. CATHODE
 3. ANODE
 4. CATHODE</p> | <p>STYLE 9:
 PIN 1. ANODE
 2. CATHODE
 3. RESISTOR ADJUST
 4. CATHODE</p> | <p>STYLE 10:
 PIN 1. CATHODE
 2. ANODE
 3. CATHODE
 4. ANODE</p> |

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