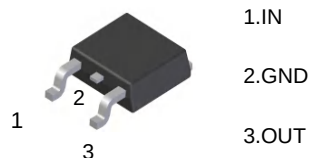
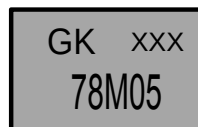


Features

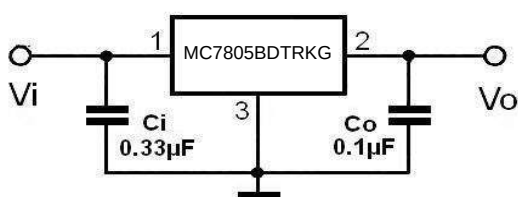
Output Current up to 1.0A
Output Voltages of 5V
Thermal Overload Protection
Short Circuit Protection
Output Transistor Safe Operating area (SOA) Protection



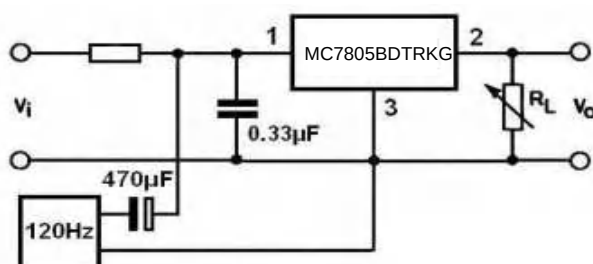
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_{IN}	35	V
Out put Voltage	V_O	5	V
Continuous total dissipation	P_D	1.25	W
Operating Temperature Range	T_{OPR}	0 ~ +125	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

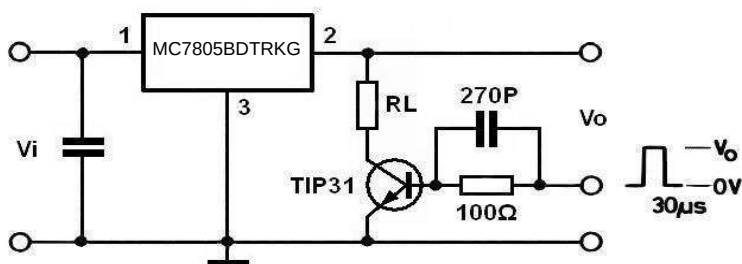
TYPICAL APPLICATION



DC Parameter



Ripple Rejection



Load Regulation

Electrical Characteristics

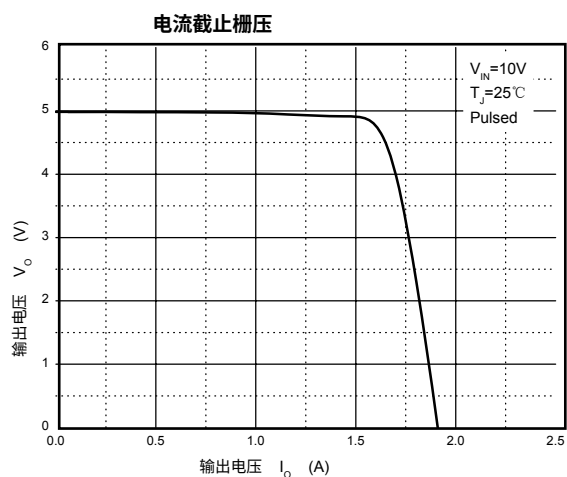
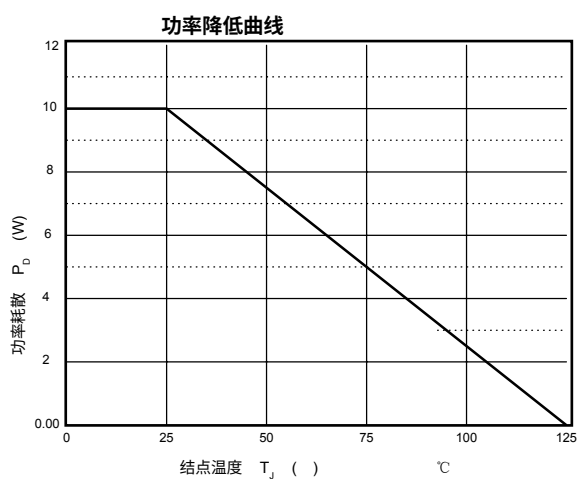
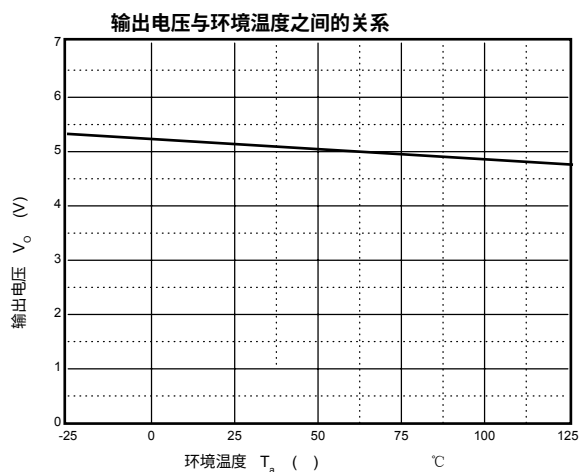
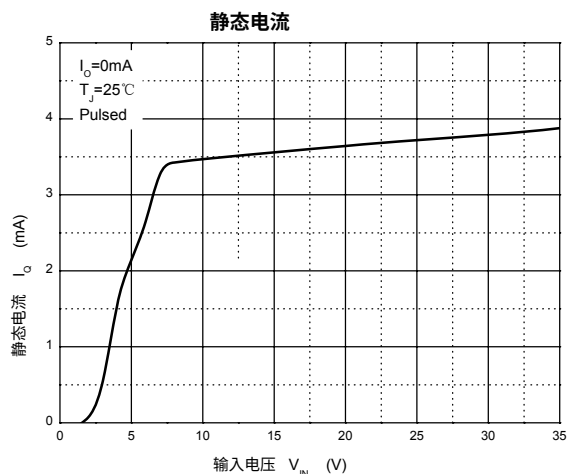
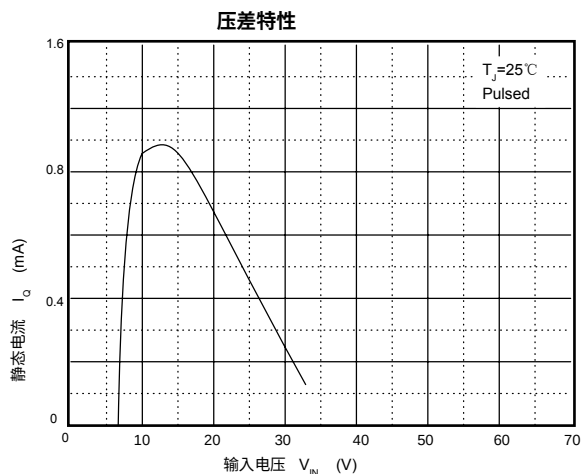
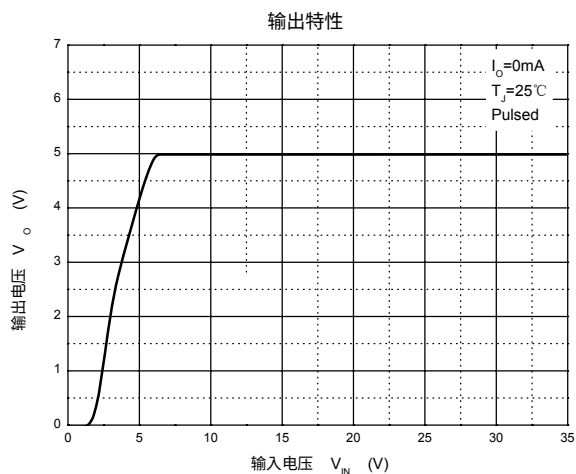
(Refer to the test circuits, $I_O=750\text{mA}$, $V_I=10\text{V}$, $C_I=0.33\mu\text{F}$, $C_O=0.1\mu\text{F}$ unless otherwise specified)

Parameter	Symbol	Conditions		Value			Unit
				Min	Typ	Max	
		$T_J = 25^\circ\text{C}$		4.8		5.2	
Output Voltage	V_O	$V_I = 7 \sim 20\text{V}$ $I_O = 5 \sim 1\text{A}$		4.75	5	5.25	V
Line Regulation	ΔV_O	$T_J = 25^\circ\text{C}$	$V_I = 7 \sim 25\text{V}$			120	mV
			$V_I = 8 \sim 22\text{V}$			60	
Load Regulation	ΔV_O	$T_J = 25^\circ\text{C}$	$I_O = 5\text{mA} \sim 1\text{A}$			120	mV
			$I_O = 0.25\text{A} \sim 0.75\text{A}$			60	
Quiescent Current	I_Q	$T_J = 25^\circ\text{C}$				8	mA
Quiescent Current Change	ΔI_Q	$I_O = 5\text{mA} \sim 1\text{A}$				0.5	mA
		$V_I = 7 \sim 25\text{V}$				1.2	
Output Noise Voltage	V_N	$10\text{Hz} \leq f \leq 100\text{kHz}$			40		μV
Ripple Rejection	RR	$f = 120\text{Hz}$, $I_O = 300\text{mA}$ $V_I = 8 \text{ to } 18\text{V}$		60			dB
Dropout Voltage	V_D	$T_J = +25^\circ\text{C}$, $I_O = 1\text{A}$			2		V
Short Circuit Current	I_{SC}	$T_J = +25^\circ\text{C}$, $V_I = 35\text{V}$			300		mA
Peak Current	I_{PK}				1.5		A

Notes:

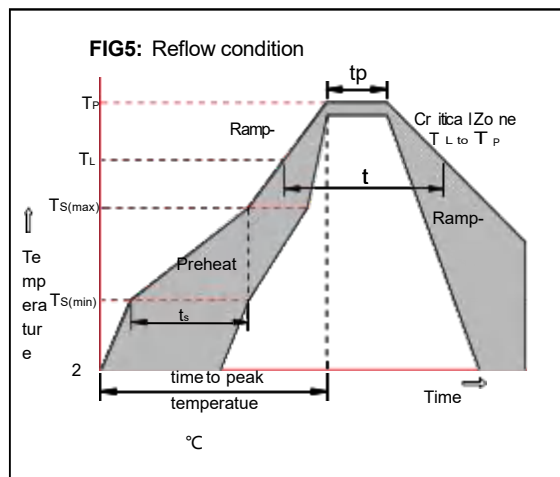
*Load and line regulation are specified at constant junction temperature. Change in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

RATING AND CHARACTERISTIC CURVES



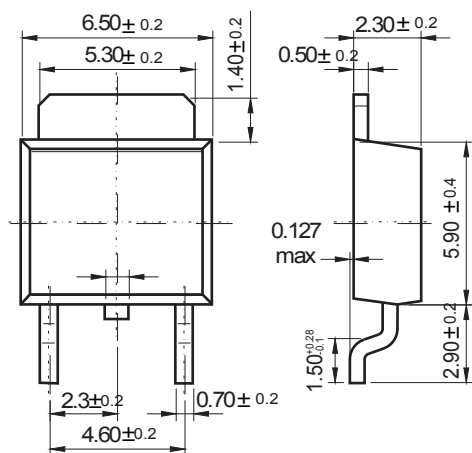
Soldering parameters

Reflow Condition		Pb-Free assembly (see as below)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L)(Liquid us)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_P)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_P)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (T_P)		8 min. Max
Do not exceed		+260°C

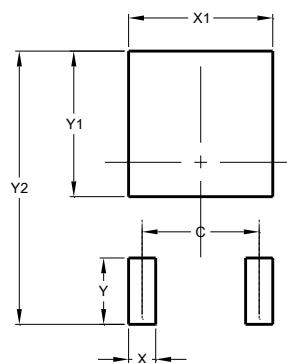


Package Dimensions & Suggested Pad Layout

TO-252

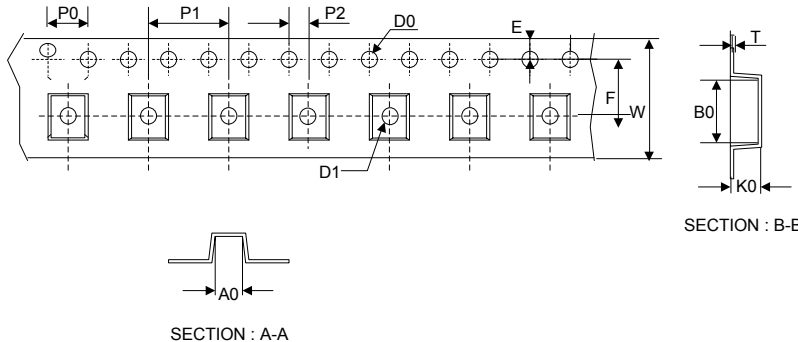
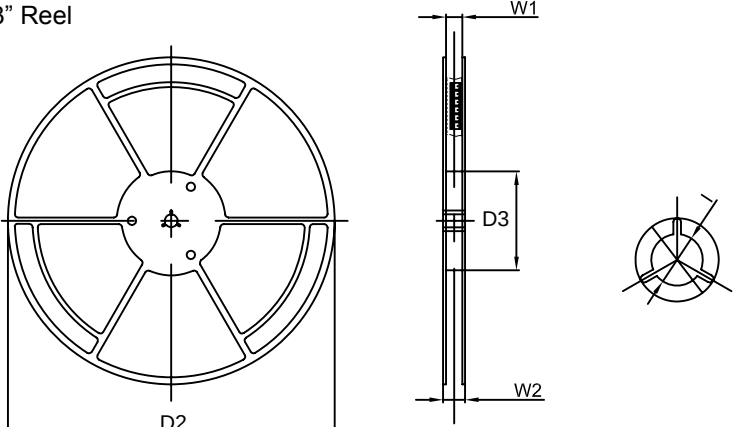


Dimensions in inches and (millimeters)



Dimensions	Value (in mm)
C	4.55
X	1.50
X1	5.80
Y	2.70
Y1	6.00
Y2	10.90

Tape & reel specification

Tape 	Symbol	Dimension (mm)
	P0	4.00±0.20
	P1	8.00±0.20
	P2	2.00±0.20
	D0	1.55±0.15
	D1	1.55±0.20
	E	1.75±0.20
	F	7.50±0.20
	W	16.00±0.20
	A0	7.10±0.20
	B0	10.50±0.20
	K0	2.70±0.20
	T	0.30±0.10
13" Reel 	D2	330.0±5.0
	D3	100.0±4.0
	W1	20.0±5.0
	W2	25.0±5.0
	I	13.0±2.0
	Quantity: 2500PCS	