

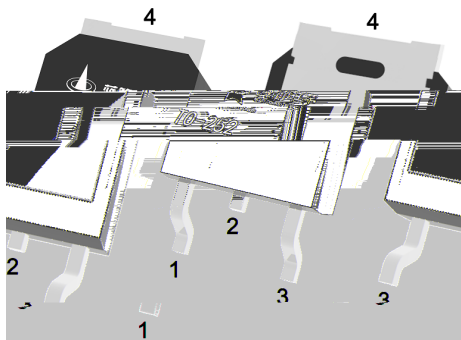
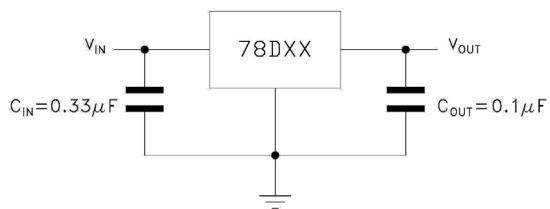
TO-252

Voltage Regulator in a TO-252 Plastic Package.

1.5A,

3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting, HF Product.

Voltage Regulator.

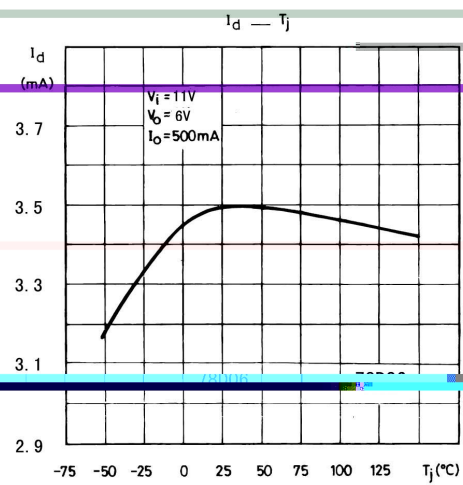
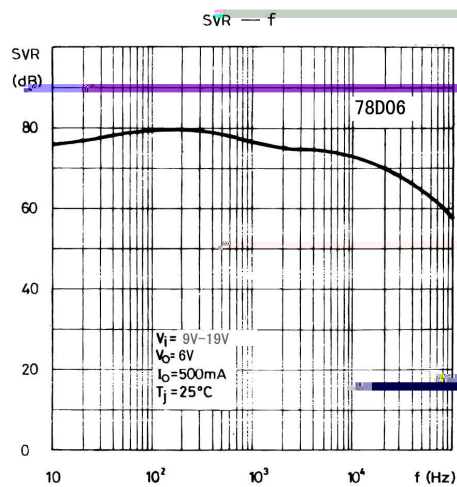
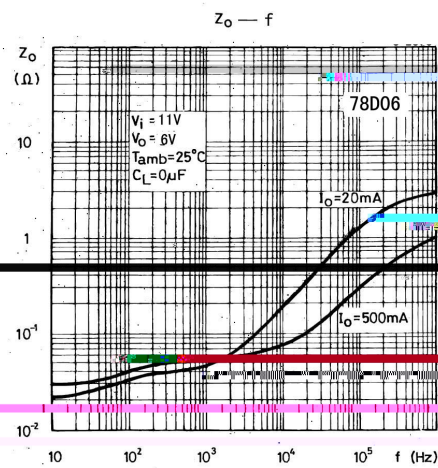
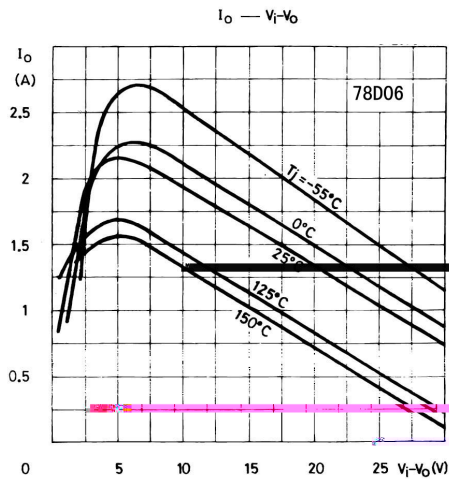
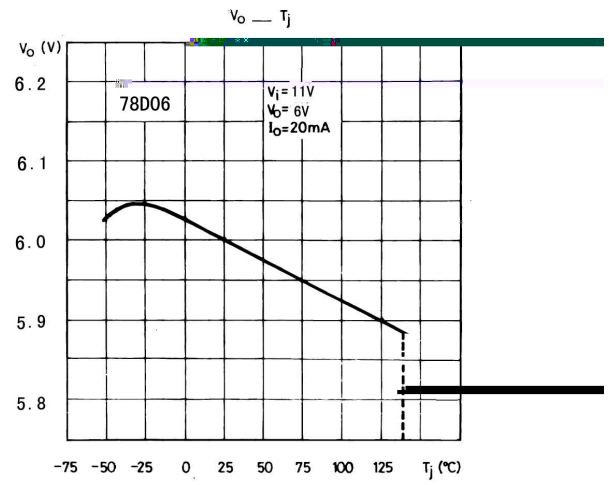
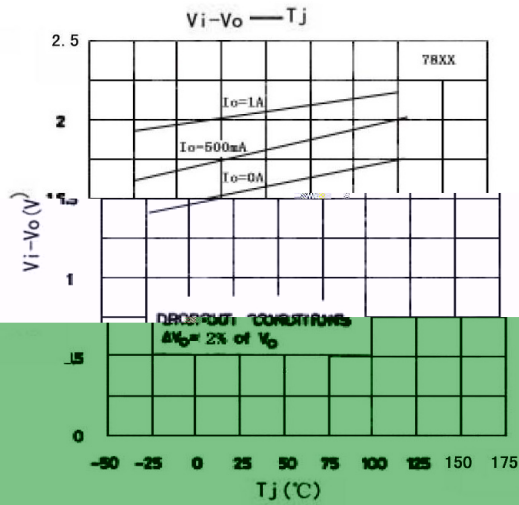


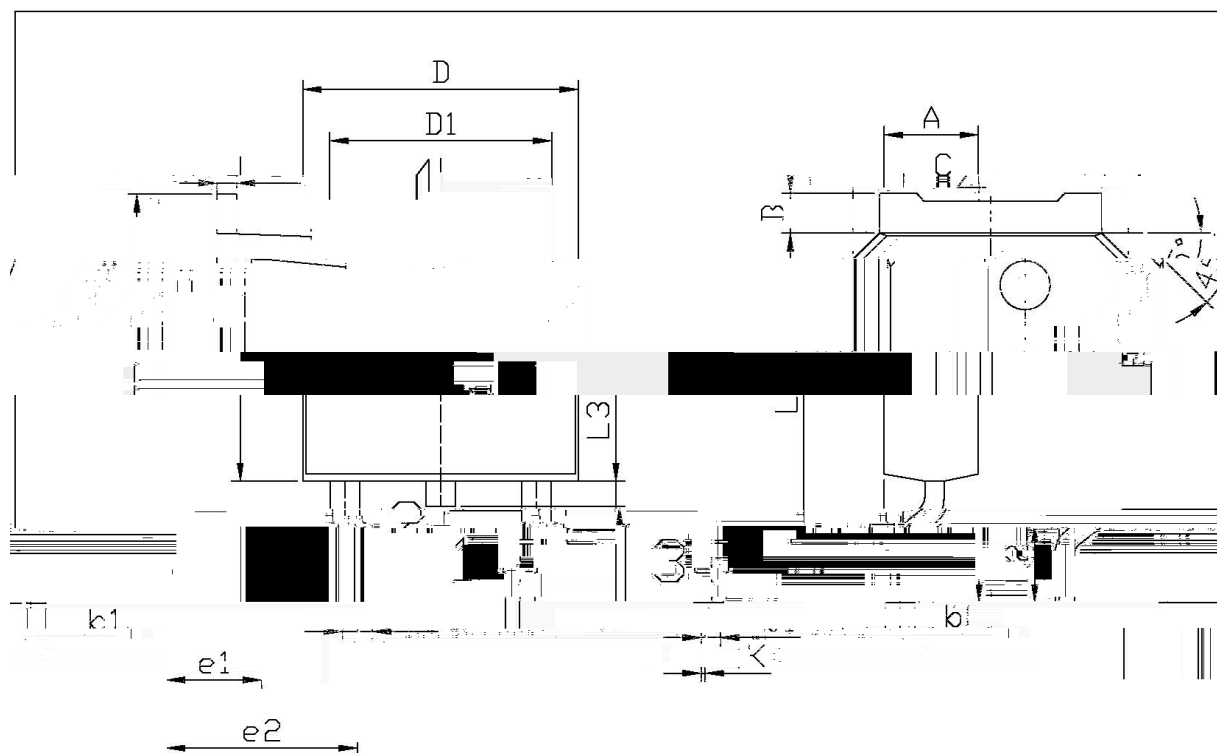
PIN1 IN PIN 2 4 GND PIN 3 OUT

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input voltage	V_i	35	V
Thermal Resistance Junction-ambient	R_{JA}	65	/W
Thermal Resistance Junction-case	R_{JC}	5.0	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25$	5.75	6.0	6.25	V
		$V_i=9V-21V$, $I_o=5mA-1A$ P_o 15W	5.7	6.0	6.3	V
Load Regulation	V_o	$T_j=25$ $I_o=5mA-1.5A$			120	mV
		$T_j=25$ $I_o=250mA-750mA$			60	mV
Line regulation	V_o	$T_j=25$ $V_i=8V-25V$			120	mV
		$T_j=25$ $V_i=9V-13V$			60	mV
Quiescent Current	I_q	$T_j=25$			8.0	mA
Quiescent Current Change	I_q	$V_i=9V-25V$			0.8	mA
		$I_o=5mA-1A$			0.5	mA
Output Voltage Drift	V_o/ T	$I_o=5mA$		-0.8		mV/
Output Noise Voltage	eN	B=10Hz-100KHz $T_j=25$		45		V/ V_o
Supply Voltage Rejection	SVR	$V_i=9V-19V$ $f=120Hz$	59	75		dB
Dropout Voltage	V_d	$I_o=1A$ $T_j=25$		2.0		V
Output Resistance	R_o	$f=1KHz$		19		m
Short Circuit Current	Isc	$V_i=35V$ $T_j=25$		0.55		A
Short Circuit Peak Current	Iscp	$T_j=25$		2.2		A

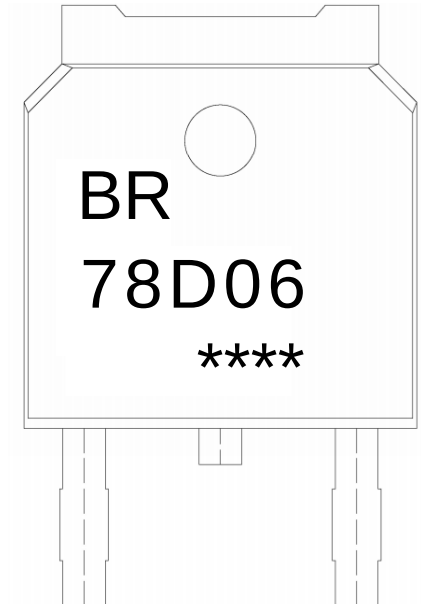




单位: mm

Symbol		Dimensions In Millimeters		Symbol		Dimensions In Millimeters	
		Min	Max			Min	Max
5.95	6.25			A	2.20	2.40	
2.24	2.34			B	0.95	1.25	e1
4.43	4.73			b1	0.70	0.90	L1
5.00	10.35			b1	0.45	0.55	L1
				L2	1.30	2.00	
3.00	0.60	0.90			6.45	6.75	
5.10	5.50	K	0.00	0.10			

TO-252



BR

78D06

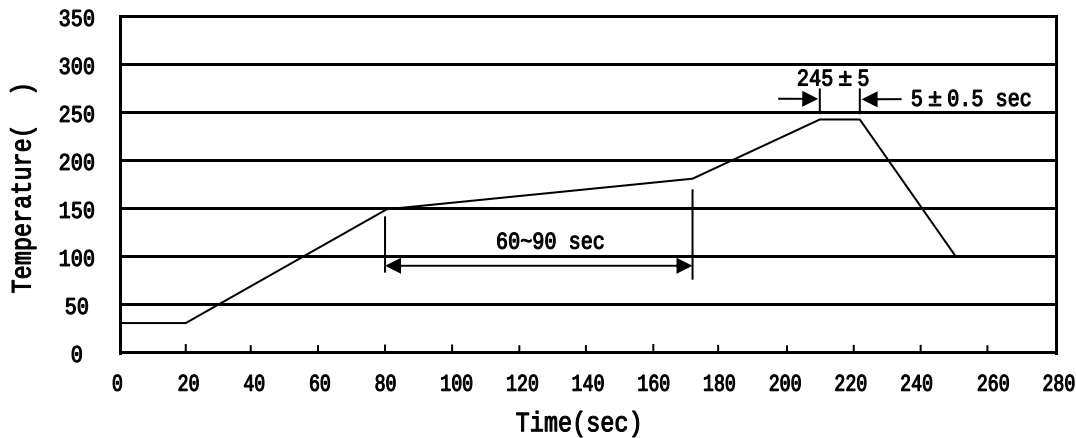
Note:

BR: Company Code

78D06: Product Type

****: Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
TO-252	2,500	2	5,000	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180