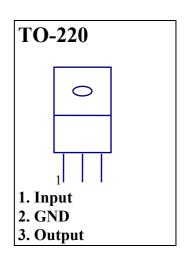
FEATURES:

- OUTPUT CURRENT IN EXCESS OF 1A;
- NO EXTERNAL COMPONENTS REQUIRED;
- INTERNAL SHORT CIRCUIT CURRENT LIMITING;
- INTERNAL THERMAL OVERLOAD PROTECTION;
- OUTPUT TRANSISTOR SAFE-AREA COMPENSATION;
- OUTPUT VOLTAGE OFFERED IN 4% TOLERANCE.

ABSOLUTE MAXIMUM RATINGS (Ta= 25° C)

Characteristic	Symbol	Norm	Unit
Input Voltage	Vin	V	35
Maximum Dissipated	Ptot(max)	W	15
Power(with heat sink)			
Maximum Dissipated	Ptot(max)	W	1.5
Power(without heat sink)			
Thermal Resistance	OjC	°C/W	5.0
Junction to Case			
Thermal Resistance,	OjA	°C/W	65
Junction to Air			
Junction Temperature	$T_{\mathbf{j}}$	150	°C



 $Tc=-45 \div +70^{\circ}C$

ELECTRICAL CHARACTERISTICS

(Vin=10V,Io=0.5A,Ci=0.33mkF,Co=0.1mkF,Tj=0+125°C, unless otherwise noted.)

Characteristic	Symbo 1	Norm			Unit
		Min	TYP	Max	
Output Voltage(Tj=25°C)	Vo	4.8		5.2	V
Output Voltage (5.0mA\le Io\le 1.0A,Po\le 15W)	Vo				
7.0V≤Vin≤20V		4.75		5.25	V
Line Regulation(Tj=+25°C)	ΔVv				mV
7.0V≤Vin≤25 V				100	
8.0 V≤Vin≤12 V				50	
Load Regulation(Tj=+25°C)	ΔVi				mV
5.0mA≤Io≤1.5A				100	
0.25A≤Io≤0.75A				50	
Quiescent Current(Tj=+25°C)	Ib			8.0	mA
Quiescent Current Change7.0 V≤Vin≤25 V	ΔIb			1.3	mA
5.0mA≤Io≤1.0 A				0.5	
Dropout Voltage(Io=1.0A,Tj=+25°C)	Vi-Vo		2.0		V
Short Circuit Current Limit(Ta=+25°C),Vin=35V	Isc		0.4		A
Peak Output Current(Tj=+25°C)	Imax		2.2		A
Average Temperature Coefficient of Output Voltage	TCVo		0.3		mV/°C