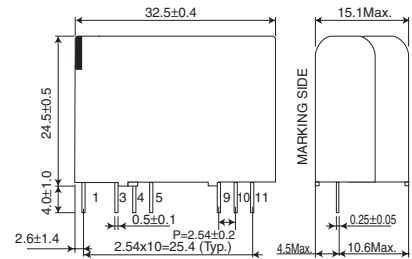


Absolute Maximum Ratings

Parameter	Symbol	Limits	Unit	
Input voltage	V_i	170	V	DC
Output voltage	V_o	4	Vpk	
Withstand voltage	BV	1.8	kV	1s (between primary and secondary)
Maximum surface temperature	T_{cmax}	105	°C	Ambient temperature + module self-heating $\leq T_{cmax}$
Operating temperature range	T_{opr}	-20 to +80	°C	Refer to derating curve
Storage temperature range	T_{stg}	-25 to +85	°C	

Dimensions (Unit : mm)

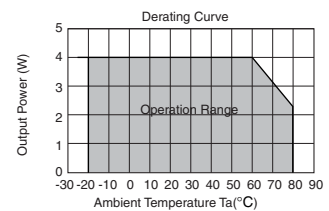


Electrical Characteristics

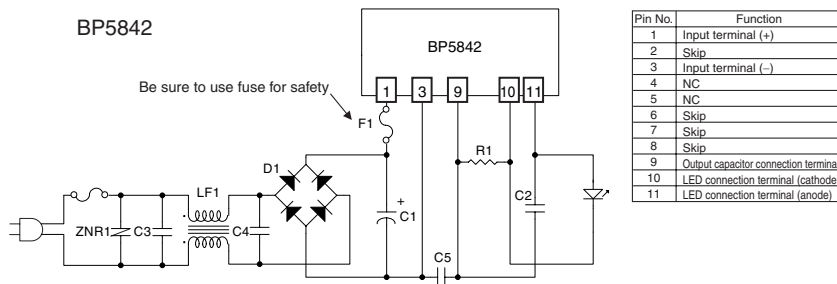
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage range	V_i	113	141	170	V	
Output current	I_o	0.91	0.96	1.0	A	$V_i=141V, R_1=0.3\Omega$ (1%)
Output voltage range	V_o	2.5	-	4	V	$V_i=141V, I_o=0.96A$
Output ripple voltage	V_p	-	-	0.5	Vp-p	$V_i=141V, I_o=0.96A$
Power conversion efficiency	η	79	84	-	%	$V_i=141V, V_o=4V, I_o=0.96A$

*1 Maximum output current varies depending on ambient temperature ; please refer to derating curve.
*2 Spike noise is not included in output ripple voltage.

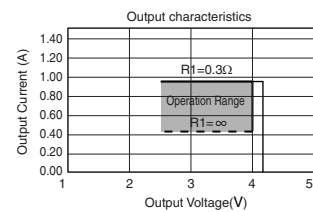
Derating Curve



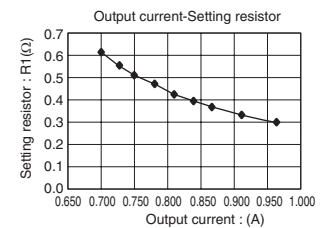
Application circuit



Output Characteristics



Setting current



How to calculate R1
 $R1=0.04983/(0.33 \times I_o-0.151)$
 I_o : Output current

External components setting

- C1 : Input Capacitor 10 μ F/250V
- C2 : Output Capacitor 40 μ F/25V Ceramics capacitor
- R1 : Output current setting resistor 0.3 Ω \pm 1% 1/4W ($I_o=960mA$)
- C3, C4: Noise Removal Capacitor Please use the capacitor, if necessary.
Capacitance : 0.1 μ F to 0.22 μ F
Rated voltage : 250V or higher
- C5 : Noise Removal Capacitor 2200pF (Basic insulation)
- D1: Diode bridge 800V/1A
- F1: Fuse Fuse must be used for safety
- LF1: Line Filter 10mH
- ZNR1: Varistor Varistor must be used. It protects this part from lighting surge and static electricity.