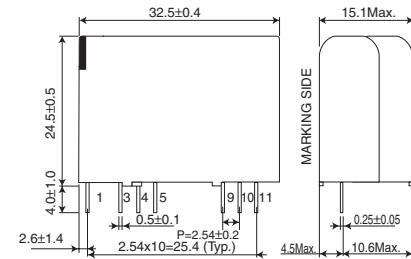


● Absolute Maximum Ratings

Parameter	Symbol	Limits	Unit	
Input voltage	Vi	170	V	DC
Output voltage	Vo	12	Vpk	
Withstand voltage	BV	1.8	kV	1s (between primary and secondary)
Maximum surface temperature	Tcmax	105	°C	Ambient temperature + module self-heating \leq Tcmax
Operating temperature range	Topr	-20 to +80	°C	Refer to derating curve
Storage temperature range	Tstg	-25 to +85	°C	

● Dimensions (Unit : mm)



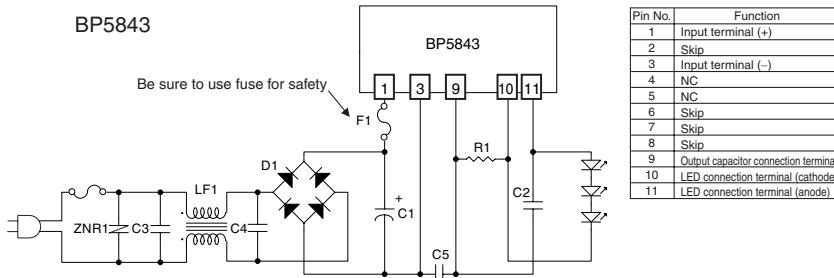
● Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage range	Vi	113	141	170	V	
Output current	Io	332	350	369	mA	Vi=141V, R1=0.82Ω (1%)
Output voltage range	Vo	2.5	—	12	V	Vi=141V, Io=350mA
Output ripple voltage	Vp	—	—	0.5	Vp-p	Vi=141V, Io=350mA
Power conversion efficiency	η	80	85	—	%	Vi=141V, Vo=12V, Io=350mA

*1 Maximum output current varies depending on ambient temperature ; please refer to derating curve.

*2 Spike noise is not included in output ripple voltage.

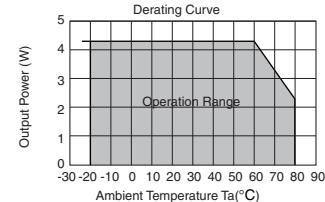
● Application circuit



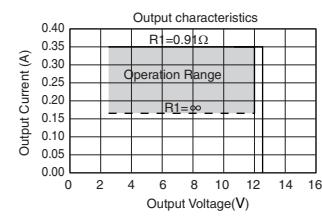
External components setting

- C1 : Input Capacitor 10μF/250V
- C2 : Output Capacitor 40μF/25V Ceramics capacitor
- R1 : Output current setting resistor $0.82\Omega \pm 1\%$ $1/4W$ ($Io=350mA$)
- C3, C4: Noise Removal Capacitor Please use the capacitor, if necessary.
Capacitance : $0.1\mu F$ to $0.22\mu F$
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.

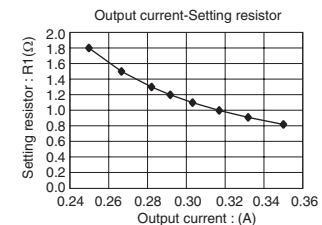
● Derating Curve



● Output Characteristics



● Setting current



How to calculate R1
 $R1=0.13741/(0.91 \times Io - 0.151)$
 Io : Output current