

- 27** An alternating potential difference, with peak value  $V$  and frequency  $f$ , is applied across a light bulb of resistance  $R$ . The bulb lights up.

Which of the following changes would result in the maximum increase in the brightness of the bulb?

	$V$	$f$	$R$
<b>A</b>	doubles	doubles	halves
<b>B</b>	halves	doubles	doubles
<b>C</b>	doubles	increases by 4 times	doubles
<b>D</b>	halves	increases by 8 times	halves