

### 2SC2462

#### **Absolute Maximum Ratings** ( $Ta = 25^{\circ}C$ )

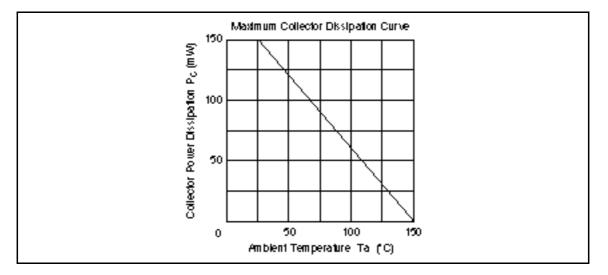
Item	Symbol	Ratings	Unit	
Collector to base voltage	V <sub>CBO</sub>	50	V	
Collector to emitter voltage	V <sub>CEO</sub>	40	V	
Emitter to base voltage	$V_{\text{EBO}}$	5	V	
Collector current	Ic	100	mA	
Emitter current	Ι <sub>Ε</sub>	-100	mA	
Collector power dissipation	Pc	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	–55 to +150	°C	

#### **Electrical Characteristics** (Ta = 25°C)

Item	Symbol	Min	Тур	Мах	Unit	Test conditions	
Collector to base breakdown voltage	$V_{\rm (BR)CBO}$	50	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$	
Collector to emitter breakdown voltage	$V_{\rm (BR)CEO}$	40	_	_	V	$I_c = 1 \text{ mA}, R_{BE} =$	
Emitter to base breakdown voltage	$V_{\rm (BR)EBO}$	5	_	_	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	
Collector cutoff current	I <sub>CBO</sub>	—	_	0.5	μA	$V_{cb} = 30 \text{ V}, I_{e} = 0$	
Emitter cutoff current	I <sub>EBO</sub>		—	0.5	μA	$V_{EB} = 2 V, I_{C} = 0$	
DC current transfer ratio	$h_{FE}^{*1}$	100	_	500		$V_{ce}$ = 12 V, $I_c$ = 2 mA	
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	0.2	V	$I_{c} = 10 \text{ mA}, I_{B} = 1 \text{ mA}$	
Base to emitter voltage	$V_{BE}$		—	0.75	V	$V_{ce}$ = 12 V, $I_c$ = 2 mA	
Note: 1. The 2SC2462 is grouped by $h_{FE}$ as follows.							
Grade B C		D					
Mark LB LC	2	LD					
h <sub>FE</sub> 100 to 200 16	60 to 320	250 to	500				

See characteristic curves of 2SC458 (LG).

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