TEL: 0755-29799516 FAX: 0755-29799515 Http://www.jdsemi.cn

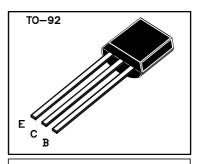
B647 PNP Power Transistor

*Applications:

- ♦ Electronical Ballasts for fluorescent lighting
- ◆ Charger and Switch mode power supplies

*Features:

- ♦ High switching speed
- ♦ Wide safe operation area



E.Emitter C.Collector B.Base

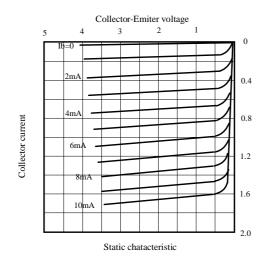
Absolute Maximum Ratings: (Tc=25°C unless specified)

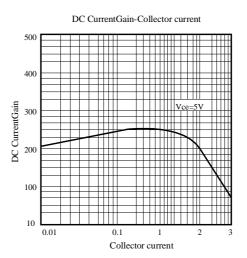
Parameter	Symbol	Value	Unit
Collector-Emitter Voltage	BV _{CEO}	≥ -40	V
Collector-Base Voltage	BV _{CBO}	≥ -60	V
Emitter-Base Voltage	$\mathrm{BV}_{\mathrm{EBO}}$	≥ -5	V
Collector Current	Icm	-2.0	A
Total Power Dissipation	Pcm	12	W
Junction Temperature	Tjm	150	$^{\circ}$
Storage Temperature	Tstg	-55 ∼ 150	$^{\circ}$

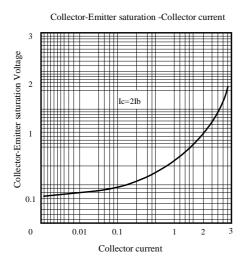
Electronical Characteristic: (Tc=25°C unless specified)

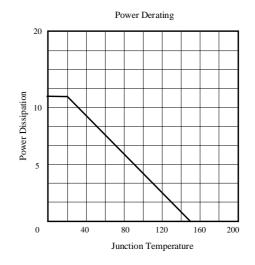
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_{C}=-1$ mA; $I_{B}=0$	-40		V
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{C}=-1$ mA; $I_{E}=0$	-60		V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E=-1mA$; $I_C=0$	-5		V
Collector-Emitter cut-off current	I_{CEO}	V_{CE} =-38V; I_{B} =0		-20	uA
Collector-Base cut-off current	I_{CBO}	V_{CB} =-58V; I_{E} =0		-10	uA
Emitter-Base cut-off current	I_{EBO}	V_{EB} =-5 V ; I_{C} =0		-10	uA
DC Current Gain	${ m H}_{ m FE}$	V_{CE} =-3V; I_{C} =-300mA	120	400	
		V _{CE} =5V; I _C =1mA	8		
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{C}=-1A;$ $I_{B}=-100mA$		-0.5	V
Storage time	t_{f}	I_{C} =-1A; I_{B1} = I_{B2} =-0.2A; V_{CE} =-20V		0.5	uS
Typical Frequency	$f_{\scriptscriptstyle T}$	V_{CE} =-5V; I_{C} =-50mA; f =30MHz		50	MHz

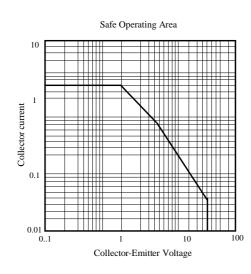
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Package Dimensions

TO-92 (Unit: mm,Tolerance±0.1mm unless specified)

