

isc Silicon NPN Darlington Power Transistor

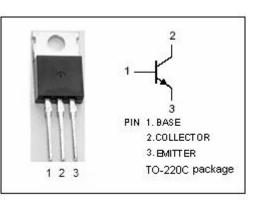
TIPL760C

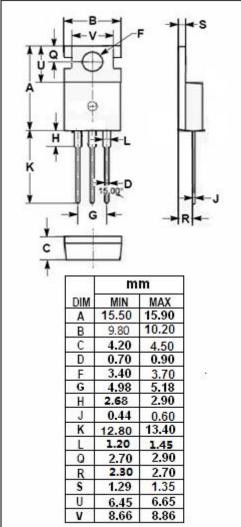
FEATURES

- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO} = 550V(Min.)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

Rugged Triple-duffused planar construction





ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

ABSOLUTE IVIAXIIVIUIVI RATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
Vсво	Collector-Base Voltage	1200	V				
V _{CEO}	Collector-Emitter Voltage	550	V				
V _{EBO}	Emitter-Base Voltage	10	V				
lc	Collector Current-Continuous	4	A				
I _{CM}	Peak collector current	8	A				
Pc	Collector Power Dissipation @T _c =25°C	75	W				
Tj	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-65~150	°C				

isc website: <u>www.iscsemi.com</u>

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TIPL760C

ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNI T
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 10mA	550			v
І _{сво}	Base Cutoff current	V _{CB} = 1200V, I _E = 0			50	μA
		V_{CB} = 1200V, I_E = 0 Tc = 100°C			200	
ICE O	Collector Cutoff current	V _{CE} = 550V, I _E = 0			50	μA
I _{EBO}	Emitter Cutoff current	V _{EB} = 10V, I _C = 0			1	mA
V _{CE (sat)}	Collector-Emitter Saturation Voltage	I _C = 2A, I _B = 0.4A I _C = 3A, I _B = 0.6A			1.0 2.5	v
V _{BE (sat)}	Base-Emitter Saturation Voltage	I_{C} = 2A, I_{B} = 0.4A I_{C} = 3A, I_{B} = 0.6A			1.2 1.4	v
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	20		60	
ft	Current gain bandwidth product	Vce = 10 V lc = 0.5 A f = 1 MHz		12		MHz

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