UTC 4128

NPN EPITAXIAL SILICON TRANSISTOR

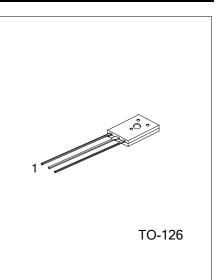
HIGH FREQUENCY SWITCHING TRANSISTORS FOR BALLASTERS

DESCRIPTION

UTC 4128 is designed for specially used for electronic ballasters in 110VAC environment.

FEATURES

- * Triple diffused technology.
- * High switching speed



1: BASE 2: COLLECTOR 3: EMITTER *Pb-free plating product number: 4128L

ABSOLUTE MAXIMUM RATINGS

(Tc = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	400	V
Collector-Emitter Voltage	V _{CEO}	200	V
Collector-Emitter Voltage	V _{EBO}	7	V
Peak Collector Current	Ι _C	5	А
Peak Collector Consume Dissipation	Pc	40	W
Peak Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

ELECTRICAL CHARACTERISTICS

(Ta = 25℃)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Maintenance Voltage	V _{CEO (SUS)}	I _C =10mA, I _B =0	200			V
Collector-Base Breakdown Voltage	V (BR) CBO	I _C =1mA, I _B =0	400			V
Emitter-Base Breakdown Voltage	V (BR) EBO	I _E =1mA, I _C =0	7			V
Collector-Base Cutoff Current	I _{CBO}	V _{CB} =400V, I _E =0			100	μA
Collector-Emitter Cutoff Current	I _{CEO}	V _{CE} =200V, I _B =0			100	μA
Emitter-Base Cutoff Current	I _{EBO}	V _{EB} =7V, Ic=0			100	μA
DC Current Gain	h _{FE (1)}	V _{CE} =10V, Ic=0.5A	10		60	
	h _{FE (2)}	V _{CE} =5V, Ic=2A	10		40	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	I _C =1A, I _B =0.2A	5		0.8	V
		I _C =4A, I _B =1A	いく	2	2	V
Base-Emitter Saturation Voltage	V _{BE (sat)}	I _C =2A, I _B =0.5A			1.6	V
Fall Time	tf	$I_{\rm C}$ =2A, $I_{\rm B1}$ = - $I_{\rm B2}$ = 0.4A	g.		0.9	μs
Storage Time	ts	$I_{C}=2A$, $I_{B1}=-I_{B2}=0.4A$)-		4	μs
Feature Frequency	f⊤	V _{CE} =10V, ic= 0.5A	4			MHz

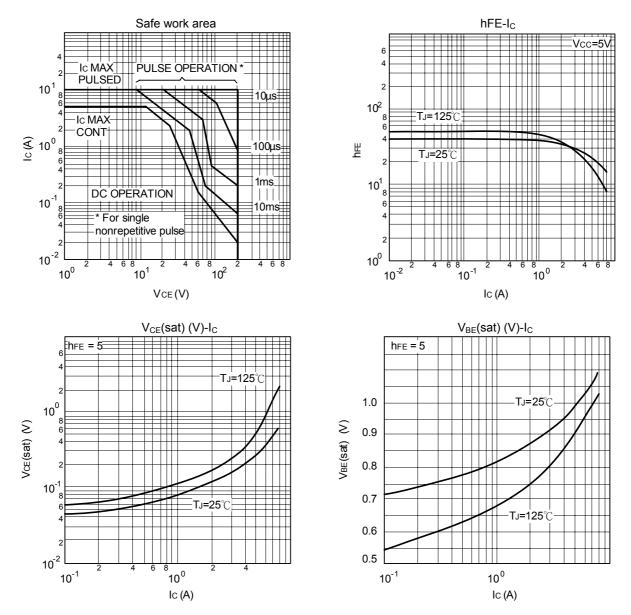
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CHARACTERISTICS CURVES



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