

SEMICONDUCTOR TECHNICAL DATA

KTA1663

EPITAXIAL PLANAR PNP TRANSISTOR

HIGH CURRENT APPLICATION.

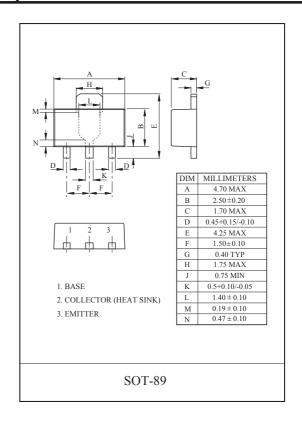
FEATURES

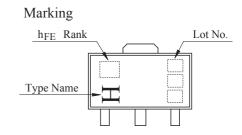
- · 1W (Mounted on Ceramic Substrate).
- · Small Flat Package.
- · Complementary to KTC4375.
- · Suffix $\underline{\mathbf{U}}$: Qualified to AEC-Q101. ex) KTA1663-Y-RTF/H $\underline{\mathbf{U}}$

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	-30	V
Collector-Emitter Voltage	V _{CEO}	-30	V
Emitter-Base Voltage	$V_{\rm EBO}$	-5	V
Collector Current	I_{C}	-1.5	A
Base Current	I_{B}	-0.3	A
Collector Power Dissipation	$P_{\rm C}$	500	mW
	P _C *	1	W
Thermal Resistance	R _{th(j-c)}	20	°C/W
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}$

P_C*: KTA1663 mounted on ceramic substrate (250mm²x0.8t)

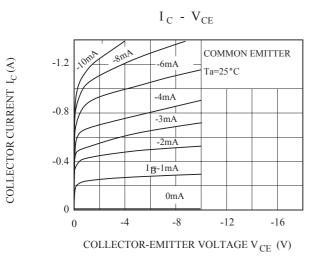


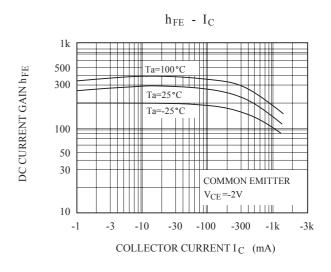


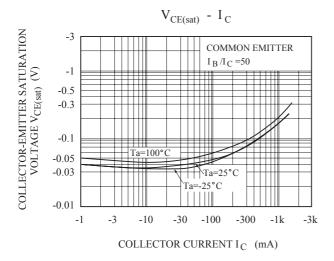
ELECTRICAL CHARACTERISTICS (Ta=25°C)

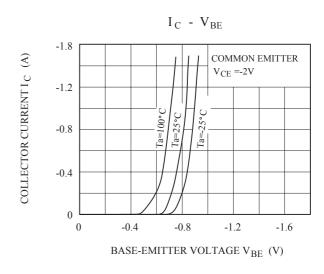
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V_{CB} =-30V, I_{E} =0	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	V_{EB} =-5V, I_{C} =0	-	-	-100	nA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-30	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I_E =-1mA, I_C =0	-5.0	-	-	V
DC Current Gain	h _{FE} (Note)	V _{CE} =-2V, I _C =-500mA	100	-	320	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-1.5A, I _B =-0.03A	-	-	-2.0	V
Base-Emitter Voltage	V_{BE}	V _{CE} =-2V, I _C =-500mA	-	-	-1.0	V
Transition Frequency	f_T	V _{CE} =-2V, I _C =-500mA	-	120	-	MHz
Collector Output Capacitance	C _{ob}	V_{CB} =-10V, I_{E} =0, f=1MHz	-	-	50	pF

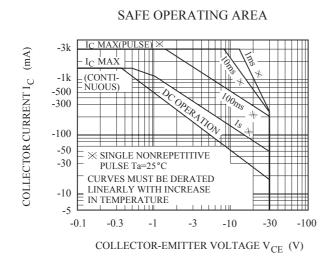
Note: h_{FE} Classification O:100~200, Y:160~320

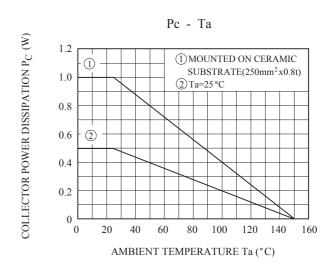












KEC

KTA1663

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