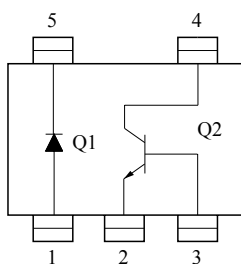


GENERAL PURPOSE APPLICATION.
ULTRA HIGH SPEED SWITCHING APPLICATION.

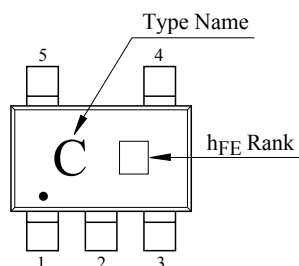
FEATURES

- Including two(TR, Diode) devices in TESV.
(Thin Extreme Super mini type with 5pin.)
- Simplify circuit design.
- Reduce a quantity of parts and manufacturing process.

EQUIVALENT CIRCUIT (TOP VIEW)



Marking



MARK SPEC

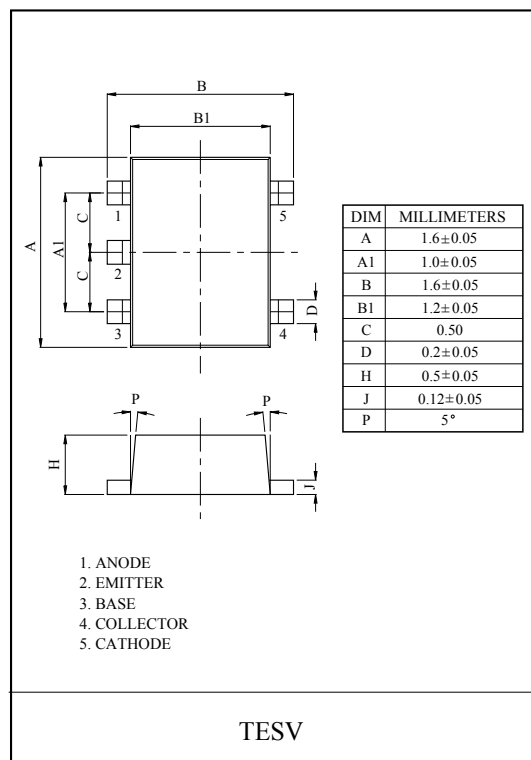
Type	KTX401E	KTX401E
	Q ₂ h _{FE} Rank : Y	Q ₂ h _{FE} Rank : GR
Mark	CD	CE

MAXIMUM RATINGS (Ta=25℃) TRANSISTOR

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	150	mA
Base Current	I _B	30	mA
Collector Power Dissipation	P _C	100	mW
Junction Temperature	T _j	150	℃
Storage Temperature Range	T _{stg}	-55~150	℃

DIODE

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V _{RM}	85	V
Reverse Voltage	V _R	80	V
Maximum (Peak) Forward Current	I _{FM}	300	mA
Average Forward Current	I _O	100	mA
Surge Current (10mS)	I _{FSM}	2	A
Power Dissipation	P _D	-	mW
Junction Temperature	T _j	150	℃
Storage Temperature Range	T _{stg}	-55 ~ 150	℃



KTX401E

Q₁ ELECTRICAL CHARACTERISTICS (Ta=25°C) TRANSISTOR

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =60V, I _E =0	-	-	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	0.1	μA
DC Current Gain	h _{FE} (Note)	V _{CE} =6V, I _C =2mA	120	-	400	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =100mA, I _B =10mA	-	0.1	0.25	V
Transition Frequency	f _T	V _{CE} =10V, I _C =1mA	80	-	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	-	2.0	3.5	pF
Noise Figure	NF	V _{CE} =6V, I _C =0.1mA, f=1kHz, R _g =10kΩ	-	1.0	10	dB

Note) h_{FE} Classification Y(4):120~240, GR:200~400.

DIODE

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _{F(1)}	I _F =1mA	-	0.60	-	V
	V _{F(2)}	I _F =10mA	-	0.72	-	
	V _{F(3)}	I _F =100mA	-	0.90	1.20	
Reverse Current	I _R	V _R =80V	-	-	0.5	μA
Total Capacitance	C _T	V _R =0, f=1MHz	-	0.9	3.0	pF
Reverse Recovery Time	t _{rr}	I _F =10mA	-	1.6	4.0	ns