

SEMICONDUCTOR
TECHNICAL DATA

KTC3217

TRIPLE DIFFUSED NPN TRANSISTOR

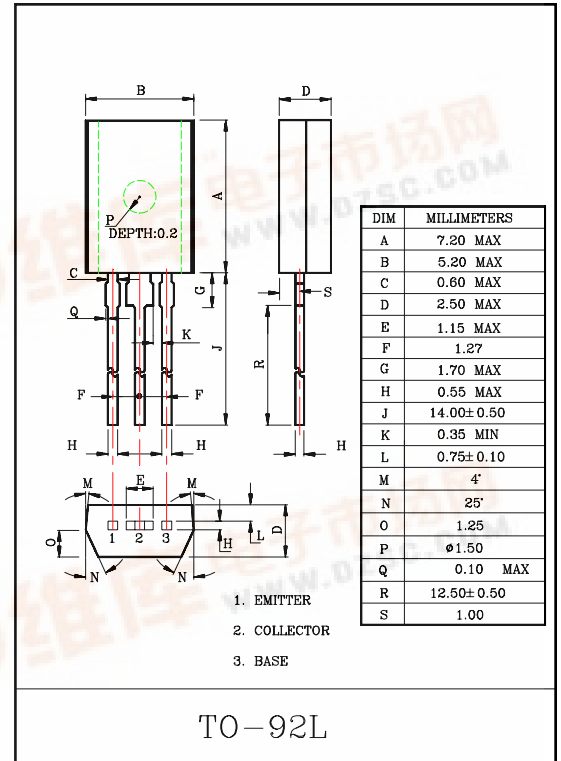
HIGH VOLTAGE SWITCHING APPLICATION.
COLOR TV HORIZONTAL DRIVER APPLICATION.
COLOR TV CHROMA OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{(BR)CEO}=450V$.
- Small Collector Output Capacitance
: $C_{ob}=4.0pF(Typ.)$.

MAXIMUM RATINGS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	450	V
Collector-Emitter Voltage	V_{CEO}	450	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=240V, I_E=0$	—	—	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	—	—	1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=10V, I_C=4mA$	20	—	—	
	$h_{FE(2)}$	$V_{CE}=10V, I_C=20mA$	40	—	80	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	—	—	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=1mA$	—	—	1.0	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=20mA$	50	—	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	—	4.0	—	pF

Note) h_{FE} classification R:40~60, O:55~80

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