

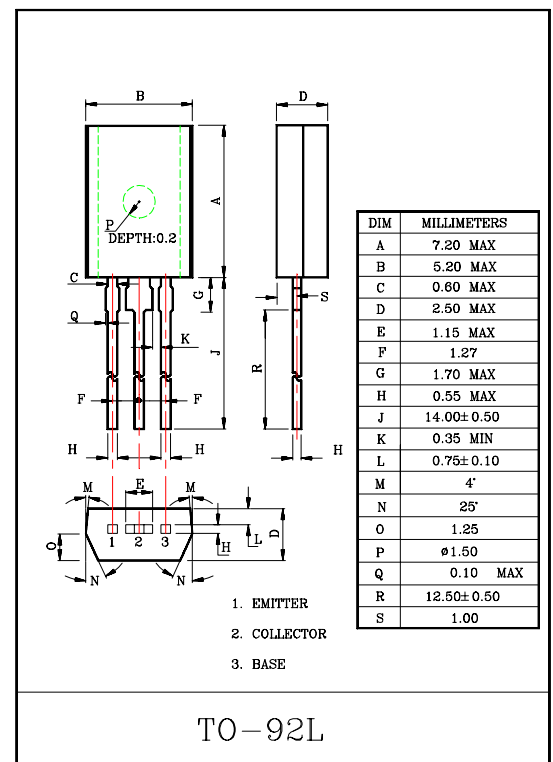
BLACK AND WHITE TV VIDEO OUTPUT APPLICATION.
HIGH VOLTAGE SWITCHING APPLICATION.

FEATURES

- High Breakdown Voltage : V_{CEO} -150V(Min.).
- Low Output Capacitance : C_{ob} -5.0pF(Max.).
- High Transition Frequency : f_T -120MHz(Typ.).

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	200	V
Collector-Emitter Voltage	V_{CE0}	150	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	50	mA
Emitter Current	I_E	50	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{C0}	$V_{CE}=200V, I_E=0$			0.1	μA
Emitter Cut-off Current	I_{E0}	$V_{BE}=5V, I_C=0$			0.1	μA
DC Current Gain	$h_{FE}(Note)$	$V_{CE}=5V, I_C=10mA$	70		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_E=1mA$	-	-	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10mA, I_E=1mA$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE}=30V, I_C=10mA$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CE}=10V, I_E=0, f=1MHz$		3.5	5.0	pF

Note : h_{FE} Classification : O:70 ~ 140, V:120 ~ 240

