

KSD5075

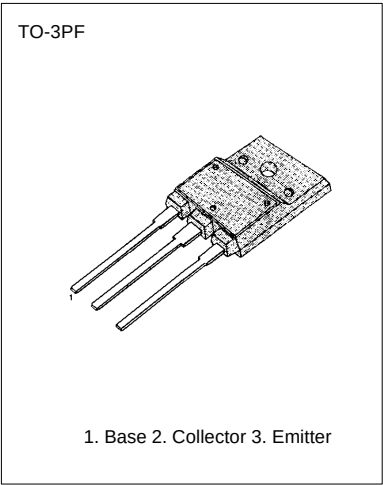
NPN TRIPLE DIFFUSED
PLANAR SILICON TRANSISTOR

COLOR TV HORIZONTAL OUTPUT
APPLICATION (NO Damper Diode)

- High Collector-Base Voltage ($V_{CBO}=1500V$)
- High Speed Switching (t_f . max=0.4 μ s)

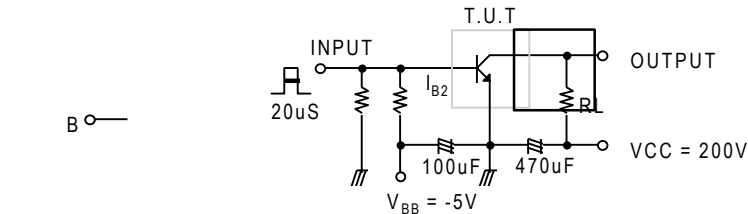
ABSOLUTE MAXIMUM RATING

Characteristic	Symbol	Rating	Unit
Collector- Base Voltage	V_{CBO}	1500	V
Collector- Emitter Voltage	V_{CEO}	800	V
Emitter- Base Voltage	V_{EBO}	6	V
Collector Current (DC)	I_C	3.5	A
Collector Current (Pulse)	I_C	10	A
Collector Dissipation ($T_C=25^{\circ}C$)	P_C	50	W
Junction Temperature	T_J	150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 ~ 150	$^{\circ}C$



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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 800V, I_E = 0$			10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			1	mA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 0.5A$	8			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2.5A, I_B = 0.8A$			8	V
Base- Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 2.5A, I_B = 0.8A$			1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 0.5A$		3		MHz
Fall Time	t_f	$I_C = 3A, I_{B1} = 0.8A$ $I_{B2} = -1.6A, R_L = 66.7\Omega$			0.4	μs



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