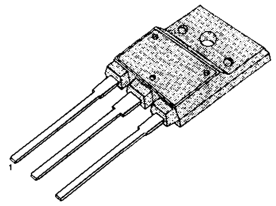
KSD5075

NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

COLOR TV HORIZONTAL OUTPUT APPLICATION (NO Damper Diode)

- High Collector-Base Voltage (V_{CBO}=1500V)
- High Speed Switching (tf. max=0.4uS)

TO-3PF



1. Base 2. Collector 3. Emitter

ABSOLUTE MIXIMUM 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℃)	P_C	50	W
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-50 ~ 150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	V_{CB} = 800V, I_E = 0			10	uA
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, RL = 66.7Ω			0.4	uS