

KSD5068

NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

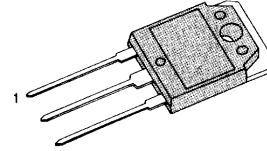
COLOR TV HORIZONTAL OUTPUT APPLICATIONS (No Dumper Diode)

- High Collector-Base Voltage ($V_{CBO}=1500V$)
- High Speed Switching ($t_f = 0.1\mu S$)

ABSOLUTE MAXIMUM RATINGS

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	8	A
Collector Current (Pulse)	I_C	30	A
Collector Dissipation ($T_C=25^\circ C$)	P_C	150	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ C$

TO-3P



1.Base 2.Collector 3.Emitter

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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current ($V_{BE}=0$)	I_{CES}	$V_{CE} = 1400V$			1	mA
Collector Cutoff Current	I_{CBO}	$V_{CB} = 800V, I_E = 0$			10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$			1	mA
DC Current Gain	h_{FE1}	$V_{CE} = 5V, I_C = 1A$	8			
	h_{FE2}	$V_{CE} = 5V, I_C = 6A$	5			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 6A, I_B = 1.2A$			5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 6A, I_B = 1.2A$			1.5	V
Fall Time	t_f	$I_C = 6A, I_{B1} = 1.2A$ $I_{B2} = -2.4A, V_{CC} = 200V$ $R_L = 33.3\Omega$		0.1	0.3	μS

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