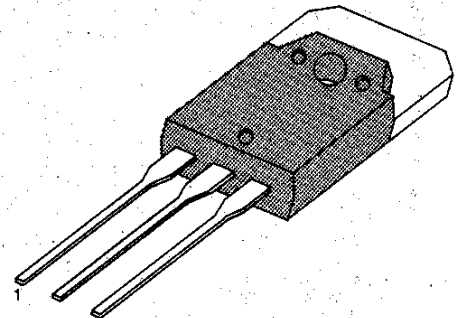


KSD5004**NPN TRIPLE DIFFUSED
PLANAR SILICON TRANSISTOR****COLOR TV HORIZONTAL OUT PUT
APPLICATIONS**HIGH Collector-Base Voltage $V_{CBO}=1500V$ **ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}C$)**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	1500	V
Collector-Emitter Voltage	V_{CEO}	800	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	2.5	A
Collector Current (Peak)	I_C	10	A
Collector Dissipation ($T_C=25^{\circ}C$)	P_C	80	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 ($T_a=25^{\circ}C$)

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	$V_{CE(sat)}$	$I_C=2A, I_B=0.6A$			8	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2A, I_B=0.6A$			1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE}=10V, I_C=0.5A$		3		MHz
Fall Time	t_f	$I_C=2A, I_{B1}=0.6A$ $I_{B2}=-1.2A, V_{CC}=200V$ $RL=100\Omega$			0.4	μS