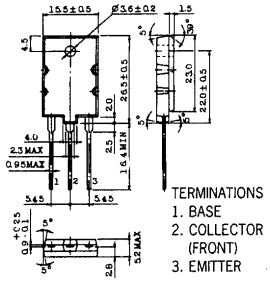
2SD1431

NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

COLOR TV HORIZONTAL OUTPUT APPLICATIONS(No Damper Diode)

- High Collector-Base Voltage(V_{CBO}=1500V)
- High Speed Switching

2-16D3A



ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	1500	V
Collector-Emitter Voltage	V_{CEO}	600	V
Emitter-Base voltage	V_{EBO}	6	V
Collector Current (DC)	I_C	5	A
Collector Dissipation (T_C=25°C)	P_C	50	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-50~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characterristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector- Emitter Cutoff Current(V_{BE}=0)	I_{CES}	V_{CE}=600 V , R_{BE}=0			1.0	mA
Collector Cutoff Current	I_{CBO}	V_{CB}= 800 V , I_E=0			10	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}= 4V , I_C=0			1.0	mA
DC Current Gain	h_{FE}	V_{CE}= 5V , I_C=1A	8			
Collector- Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=4A , I_B=0.8A			5.0	V

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