

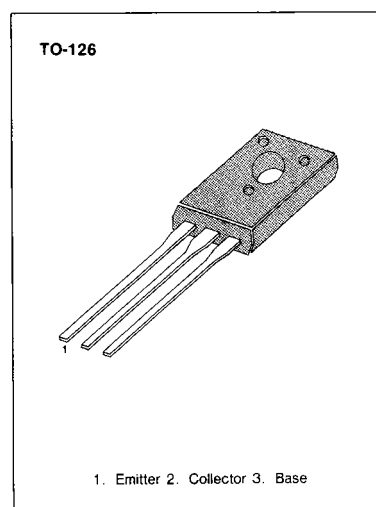
NPN Transistor KSC2258A datasheet

HIGH VOLTAGE GENERAL AMPLIFIER TV VIDEO OUTPUT AMPLIFIER

- High V_{CE0}

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage : KSC2258	V_{CBO}	250	V
: KSC2258A		300	V
Collector Emitter Voltage: KSC2258	V_{CEO}	250	V
: KSC2258A		300	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current (DC)	I_C	100	mA
Collector Current (Pulse)	I_C	150	mA
Collector Dissipation	P_C	4	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$



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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Emitter Base Voltage	V_{EBO}	$I_E = 0.1\text{mA}, I_C = 0$	6			V
Collector Cutoff Current	I_{CER}	$V_{CE} = 250\text{V}, R_{BE} = 100\text{K}\Omega$			100	μA
DC Current Gain	h_{FE1}	$V_{CE} = 20\text{V}, I_C = 40\text{mA}$	40			
	h_{FE2}	$V_{CE} = 50\text{V}, I_C = 5\text{mA}$	30			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 50\text{mA}, I_B = 5\text{mA}$			1.2	V
Base Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = 20\text{V}, I_C = 40\text{mA}$			1.2	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 10\text{V}, -I_E = 10\text{mA}$		100		MHz
Output Capacitance	C_{OB}	$V_{CB} = 50\text{V}, f = 1\text{MHz}$		3	4.5	pF

NPN Transistor KSC2258A datasheet

