

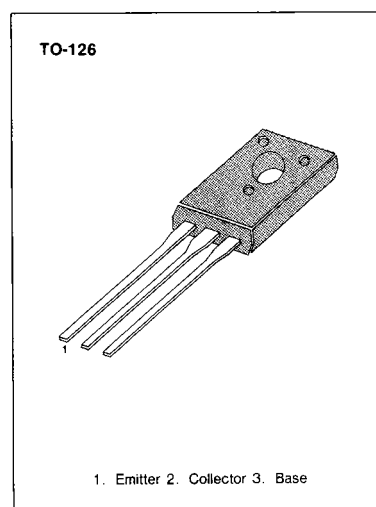
## NPN Transistor KSC2258 datasheet

### 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	$\mu\text{A}$
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 KSC2258 datasheet

