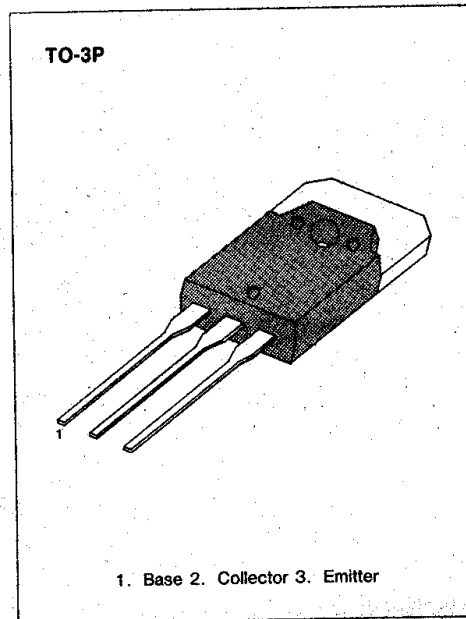


**COLOR TV HORIZONTAL OUT PUT  
APPLICATIONS (DAMPER DIODE BUILT IN)**

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	$I_C$	3.5	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	$^\circ C$



**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	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4V, I_C = 0$	40		130	mA
DC Current Gain	$h_{FE}$	$V_{CE} = 5V, I_C = 0.5A$	8			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2.5A, I_B = 0.8A$			8	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 2.5A, I_B = 0.8A$			1.5	V
Current Gain Bandwidth Product	$f_T$	$V_{CE} = 10V, I_C = 0.5A$		3		MHz
Damper Diode Turn On Voltage	$V_f$	$I_f = 3.5A$			2	V
Fall Time	$t_f$	$I_C = 3A, I_B1 = 0.8A$ $I_B2 = -1.6A, V_{CC} = 200V$ $R_L = 66.7\Omega$			0.4	$\mu S$

