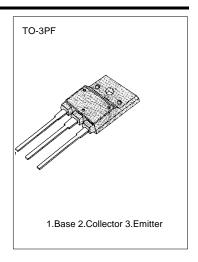
NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

COLOR TV HORIZONTAL OUTPUT APPLICATION (DAMPER DIODE BUILT IN)

- High Collector-Base Voltage (V_{CBO}=1500V)
- High Switching Speed (t_F. max=0.4μs)

ABSOLUTE MAXIMUM RATING

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	1500	V
Collector Emitter Voltage	V_{CEO}	800	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current (DC)	I_{C}	3.5	Α
Collector Current (Pulse)	I_{C}	10	Α
Collector Dissipation (T _C =25°C)	P_{C}	50	W
Junction Temperature	T_{J}	150	°C
Storage Temperature	T _{STG}	-55 ~ 150	°C



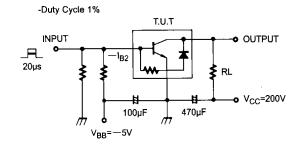
ELECTRICAL CHARACTERISTICS (T_C=25°C)

www DataSheet4

U.com Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	$V_{CB} = 800V, I_{E} = 0$			10	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 4V, I_{C} = 0$	40		200	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	$I_C = 3A$, $I_B 1 = 0.8A$			0.4	μs
		$I_B 2 = -1.6A, V_{CC} = 200V$				-
		$RL = 66.7\Omega$				

-EQUIVALENT CIRCUIT

-SWITCHING TIME TEST CIRCUIT





Rev B.

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