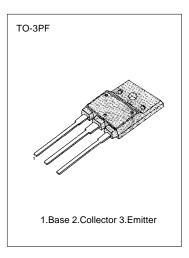
COLOR TV HORIZONTAL OUTPUT APPLICATION (DAMPER DIODE BUILT IN)

- High Collector-Base Voltage (V_{CBO}=1500V)
- \bullet High Switching Speed (t_F. max=0.1 μ s)

ABSOLUTE MIXIMUM RATING

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	1500	٧
Collector Emitter Voltage	V_{CEO}	800	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current (DC)	Ic	8	Α
Collector Current (Pulse)	Ic	30	Α
Collector Dissipation (T _C =25°C)	Pc	70	W
Junction Temperature	T_J	150	°C
Storage Temperature	T _{STG}	-55 ~ 150	°C

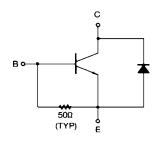


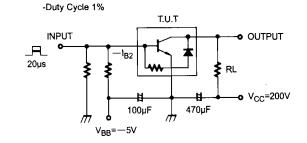
ELECTRICAL CHARACTERISTICS (T_c=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector Cutoff Current (V _{BE} =0)	I _{CES}	V _{CE} = 1400V, R _{BE} = 0			1	mA
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 _{FE1}	$V_{CE} = 5V, I_{C} = 1.0A$	8			
	h _{FE2}	$V_{CE} = 5V, I_{C} = 6.0A$	5			
Collector Emitter Saturation Voltage	V _{CE} (sat)	$I_C = 6A, I_B = 1.2A$			5.0	V
Base Emitter Saturation Voltage	V _{BE} (sat)	$I_C = 6A, I_B = 1.2A$			1.5	V
Damper Diode Turn On Voltage	V _F	$I_F = 8A$			2.0	V
Fall Time	t _F	$I_C = 6A$, $I_B 1 = 1.2A$		0.1	0.3	μs
		$I_B 2 = -2.4A,$				
		$V_{CC} = 200V, R_L = 33.3\Omega$				

-EQUIVALENT CIRCUIT

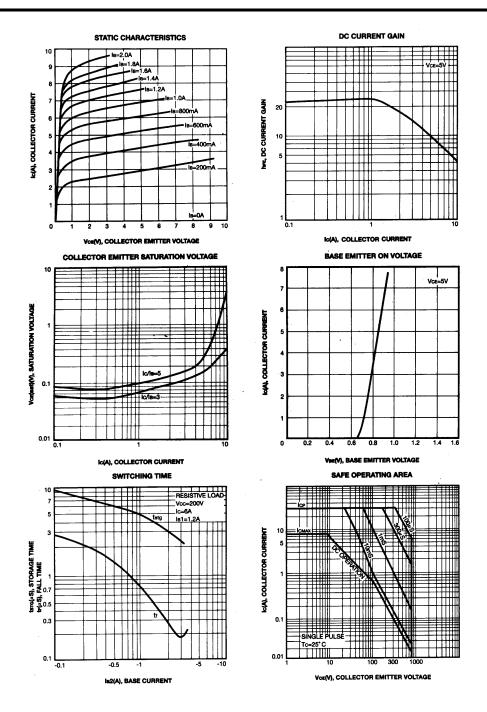
-SWITCHING TIME TEST CIRCUIT





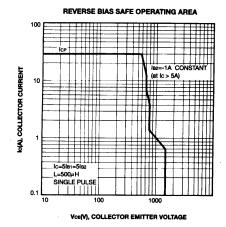


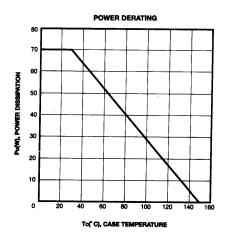
NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR





NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR







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