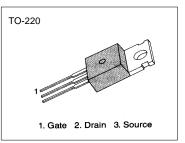
HIGH VOLTAGE POWER SWITCH SWITCHING APPLICATION

- High Speed Switching
- Wide SOA
- High Collector-Base Voltage

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	1200	V
Collector-Emitter Voltage	V _{CEO}	800	V
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current (DC)	lc	2	Α
Collector Current (Pulse)	I _{CP}	5	Α
Base Current (DC)	IB	1	A
Base Current (Pulse)	I _{BP}	2.5	Α
Collector Dissipation	Pc	40	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ 150	°C



*Pulse Test: Pulse Width=100ms, Duty Cycle≤10%

ELECTRICAL CHARACTERISTICS (Tc =25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Base Breakdown Voltage	BV _{CBO}	$I_{\rm C} = 1 {\rm mA}, I_{\rm E} = 0$	1200			V
Collector Emitter Breakdown Voltage	BV _{CEO}	$I_{\rm C} = 5 {\rm mA}, I_{\rm B} = 0$	800			V
Emitter Base Breakdown Voltage	BV _{EEO}	$I_{E} = 1 \text{mA}, I_{C} = 0$	12			V
Collector Cut off Current	I _{CBO}	$V_{CB} = 800V, I_E = 0$			10	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 9V, I_{C} = 0$			10	μA
DC Current Gain	h _{FE} 1	$V_{CE} = 5V, I_{C} = 0.1A$	10		40	
	h _{FE} 2	$V_{CE} = 5V, I_{C} = 0.4A$	8			
Collector Emitter Saturation Voltage	V _{CE} (sat)	$I_{\rm C} = 500 {\rm mA}, I_{\rm B} = 100 {\rm mA}$			2.0	V
Base Emitter Saturation Voltage	V _{BE} (sat)	$I_{\rm C} = 500 {\rm mA}, I_{\rm B} = 100 {\rm mA}$			1.5	V
		$V_{CB} = 10V, I_E = 0, f = 1MHz$				pF
Output Capacitance	C _{OB}	$V_{CC} = 400V,$			0.5	μs
Turn On Time	t _{ON}	$I_{C} = 1A = 5I_{B1} = -2.5 \bullet I_{B2}$			2.0	μs
Storage Time	t _{STG}	$R_L = 400\Omega$			0.25	μs
Fall Time	t _F			30		

THERMAL CHARACTERISTICS

Characteristic	Symbol	Мах	Unit
Thermal Resistance, Junction to Case	Rθ jC	3.12	°C/W



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